

The CHEMIST AND DRUGGIST

or RETAILER - WHOLESALE - MANUFACTURER

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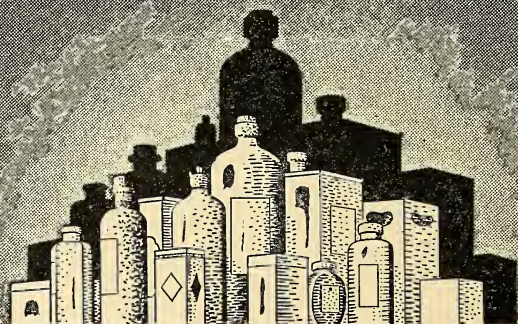
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31st May
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1946

Messrs.

Dear Sirs, We beg to refer you to the transactions we had the pleasure of having with your esteemed house in 1914 and regret that since then we have not been favoured with your orders and enquiries. As we have several cheap lots, we beg to offer you to-day:

1½ cwt PHENACETIN B P Swiss manufacture 78/- per lb.

Trusting to be favoured with your esteemed order by wire to-morrow morning, Yours truly,

[Signature]

One of our friends turning out some salvage the other day came across the above letter which he sent us as a matter of interest. War had then barely been waged for two years, and the country was in desperate straits for numerous essential medicinals.

The earlier dependence of this country on German supplies was soon bringing retribution in fantastic scarcity prices.

Now, after three years of war, the steady building in pre-war days of a British fine chemicals industry brings its reward.

Users of Phenacetin who supported British manufacture in peace time now rely comfortably on steady supplies from MONSANTO—and at a price not far removed from peace time level.

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Cod Liver Oil in nutrition

Before the war leading Medical opinion at home and abroad agreed that even then a daily teaspoonful of Cod Liver Oil was needed to supplement the diets of infants, children, adolescents, and nursing and expectant mothers. The pre-war *Report on the Physiological Bases of Nutrition* 1936, setting down these conclusions and recommendations was endorsed by our own Ministry of Health and the British Medical Research Council.

Since the outbreak of the war the Ministry of Food have taken steps, with their Cod Liver Oil Distribution Scheme, to ensure that adequate supplies are to-day within the reach of expectant mothers and young children.

But the Ministry of Food Scheme

needs the active co-operation and support of the Pharmaceutical Profession in recommending mother take advantage of these facilities in getting them to appreciate importance and value of Cod Liver Oil in pre-natal care and through childhood and adolescence.

For those outside the scheme, also for those who prefer freedom of choice, Seven Seas pure Cod Liver Oil is available in all chemists' shops throughout the country. There is no shortage of Seven Seas, and its quality and purity remain unimpaired. The Pharmaceutical Profession is, however, reminded that orders should be placed at least two or three months ahead of actual needs, as the difficulties of packing and delivery are greater than ever before.

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The "mixed" parcels previously supplied have been abandoned in favour of "straight dozens" of the various packings of both oil and capsules. This will obviate the stock difficulties associated with the "mixed" orders in last year's offer and will greatly facilitate despatch and transport.

Owing to supply difficulties the "25 capsules" pack has been entirely discontinued but the "100 capsules" pack is again available. The "oil" packs remain as formerly.

We must RESERVE THE RIGHT to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.

TERMS OF SUPPLY:

- 1 Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
- 2 The order must be accompanied by cash. No pro-forma invoices can be issued.
- 3 Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.
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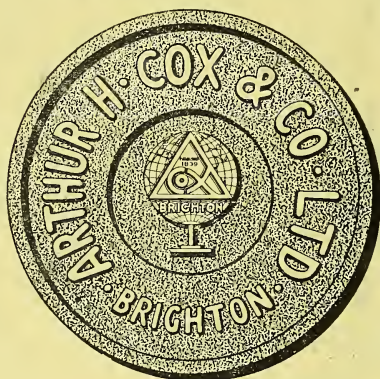
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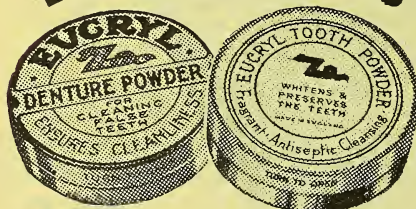
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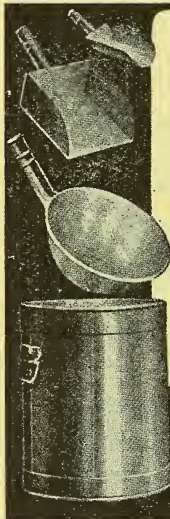
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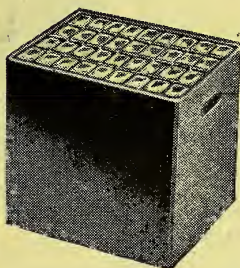
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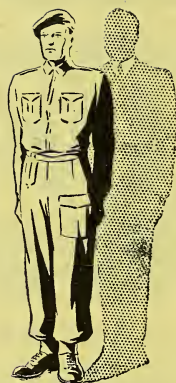
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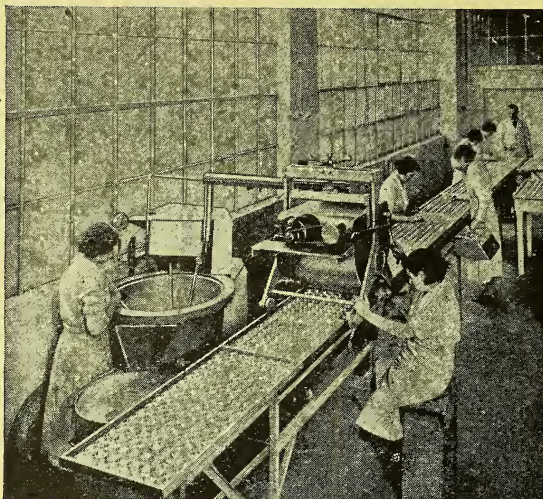
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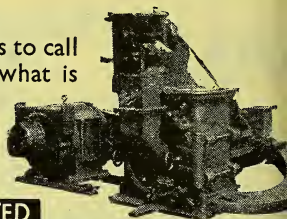
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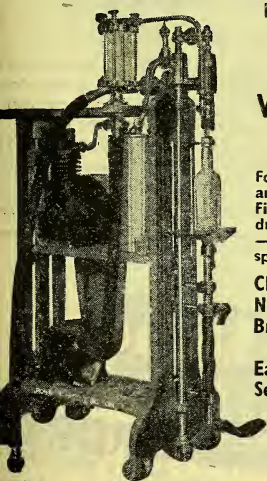
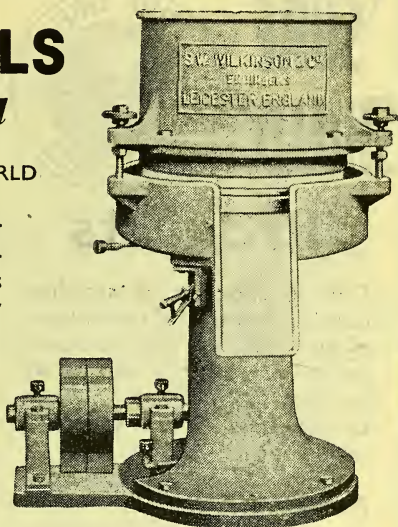
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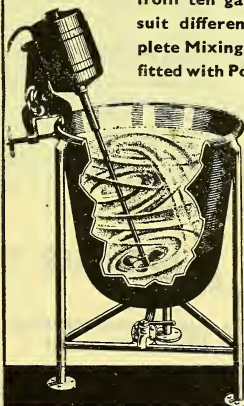
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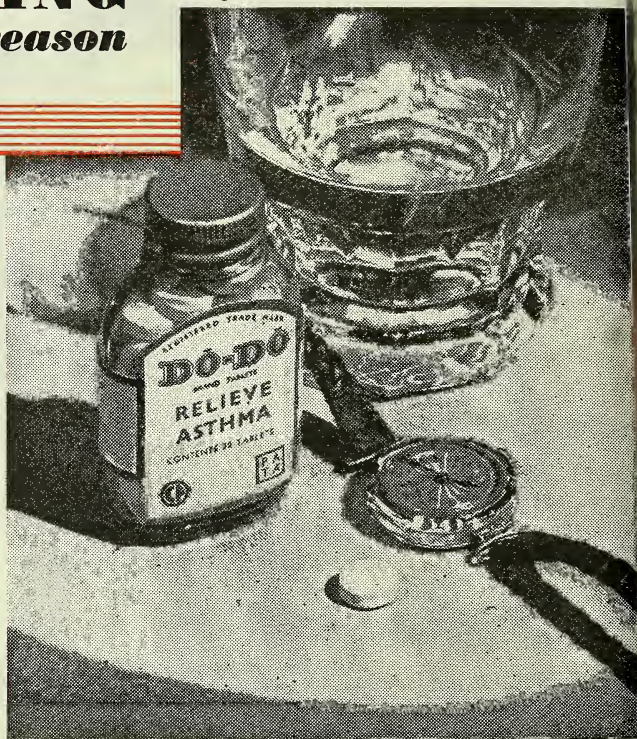
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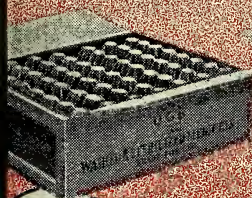
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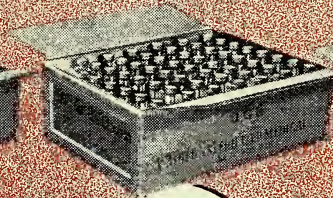


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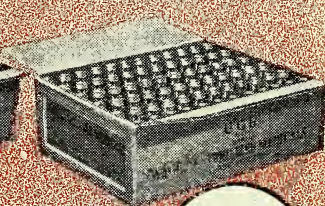
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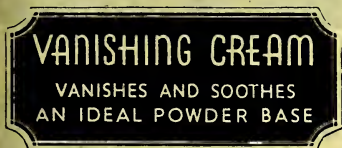
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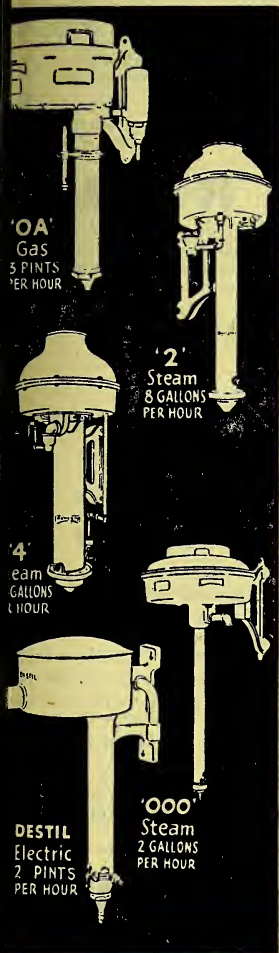
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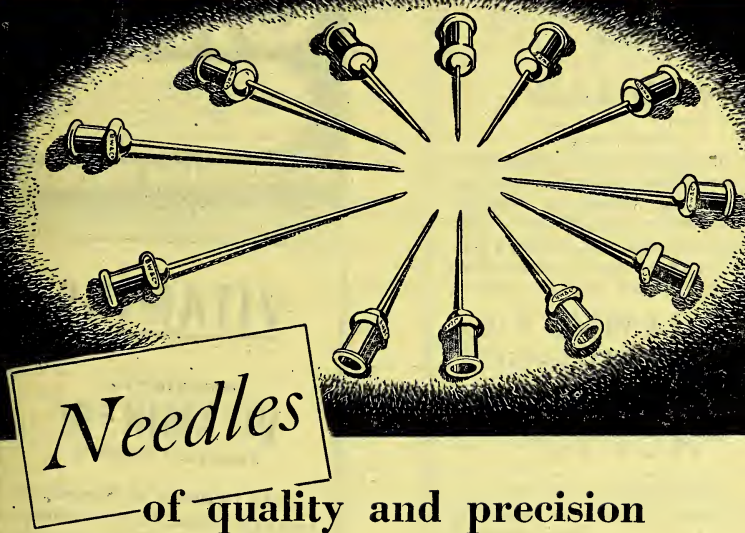
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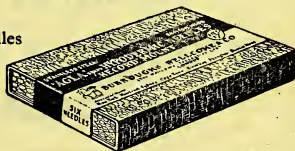


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NEWS OF THE WEEK

Plymouth Pharmacy Liaisons.—At a meeting of the Plymouth Branch of the Pharmaceutical Society recently it was decided to form a Plymouth Pharmacy Liaison Committee, embracing all local pharmaceutical bodies and organisations, each section sending two representatives. It was also decided to support the formation of a South-western Pharmacy Committee in conjunction with other branches of the Pharmaceutical Society in the South-west of England. Messrs. W. F. E. Eustace, Ferny Wallis, and A. G. M. Madge were elected representatives to the Plymouth Mercantile Association. Licensing control of retail trade was discussed, and it was agreed to support control after the war for two years until such time, not exceeding five years, as traders on the Withdrawing Traders' register be re-established in business, the priority to be: Trader called up; premises rendered untenable by war damage; premi-

ses requisitioned by Government; staff called up or supplies inadequate. It was urged that legislation should be introduced to provide that a period of not less than two months should elapse between the dates of bringing into force of each category in the priority list, the applications to be considered on their merits.

Blackburn Favours Registered Traders.—Chemists were among Blackburn traders who, on August 17, approved a Chamber of Trade resolution in favour of permanent registration of traders after the war. Mr. J. Isherwood (ex-president of North-east Lancashire Chemists' Association) wrote giving his support. He said there should be an insistence that new licences should only be granted on the basis of definite qualification, either by apprenticeship, assistanceship, or examination, and, so far as possible, shops should be in proportion to population.

Chemical Works Bombed.—The Air Ministry report of operations on the night of August 22 states that aircraft of Bomber Command attacked Rhineland objectives including the chemical works at Leverkusen.

Analysts' Society Sub-groups.—The Council of the Society of Public Analysts and other Analytical Chemists has approved the institution of groups concerned with specialised branches of analytical chemistry within the framework of the Society's constitution. Negotiations are in progress with the Microchemical Club with a view to that body becoming one of the groups, and the formation of other groups is being encouraged. Proposals will be submitted to a special meeting of the Society during the autumn months.

Newcastle Debate.—At a debate organised by the Newcastle District and Northumberland Branch of the Pharmaceutical Society recently on the proposition "That State Pharmacy is in the Interests of the General Public," MR. R. V. ATKINS, who opened for the motion, was supported by MR. J. RIDLEY. Under the present system, Mr. Atkins contended, there was a great wastage of skilled labour. Pharmacy was crowded into a small central shopping area depending upon business other than pharmaceutical to pay expenses, and the number of chemist's shops in better-class districts was out of proportion to the population, while frequently working-class districts were not adequately served. He admitted that, under a State system, chemists, like the general public, would lose their freedom. But what was this freedom? Surely, he said, the freedom of the jungle, liable at any time to be swallowed up or starved out by big vested interests. Already the private chemist was pushed off the main streets into the side streets; after the war competition was likely to be fiercer and they would finish up in the back streets. Such competition was leading to a less efficient service through lack of capital, and was consequently reacting to the disadvantage of the general public. MR. RIDLEY envisaged a health service under which prophylactic treatment would be in the forefront. So long as patent medicines were extensively marketed this would be jeopardised. State pharmacy would help to abolish the pernicious habit of self-medication. Miss F. CARTER and MR. R. A. HUDSPITH made the case against the motion. They stressed the loss to the patient of free choice of chemist and the loss of confidence in the chemist that unquestionably prevailed in present

conditions. They foresaw a degeneration of pharmacy to a purely civil service form of filling institution without any contact between patient and chemist. They maintained that under a State system the brains in pharmacy would have little chance of reaching the top, as in the civil service promotion was by seniority of service together with a little wire-pulling. Other points against the motion were that competition would be eliminated and that competition was essential to progress; that the Society might lose control of the examinations; that employment of unqualified dispensers might result; and that chemists might become laboratory boys for the medical profession. Miss JENSON and MESSRS. DAGG, DUNCAN, FLEMMING, LAWSON, MCGUCKIN, W. R. RIDLEY, THOMAS and WEBSTER took part in the debate. On being put to the vote the motion was lost by four votes.

Eire Golf.—The Irish Chemists' Golfing Society held a competition at Bray Golf Club on August 18 for prizes presented by Proprietaries (Eire), Ltd., and Harwood Bros., Ltd. The results were: *Eighteen holes Strokes*: P. H. Fahey (16), 72; J. Moran (4), 73. *Eighteen-holes Bogey*: F. Bardon (18), 2 down; H. J. McDevitt (20), 3 down. *First Nine Holes Strokes*: J. Smyth (6), 35. *Second Nine Holes Strokes*: J. J. Roche (9), 37. At the close of the competitions the captain (Mr. J. F. O'Hara) presided at a supper held in the club-house. MR. O'HARA thanked members for the fine attendance. On the proposition of MR. McDEVITT, seconded by MR. J. MORAN, a vote of thanks was passed to the donors of the prizes, MR. PERCY HARWOOD responding on behalf of both companies. Thanks to the Bray Golf Club were cordially voted on the motion of MR. M. LEONARD, seconded by MR. W. R. SUCH, REV. FR. BUTLER replying to the motion on behalf of the Club.

C. & D. QUIZ NO. 9

1. When was ergot first mentioned in a European text-book?
2. Who discovered hydrogen peroxide?
3. What is liquid belladonna plaster?
4. What is musk root?
5. What is Chelsea pensioner?
6. What is B.I.P.P.?
7. When and by whom were cachets devised?
8. What is cirussa?
9. When was the B.P.C. first published?
10. What other claim to fame has Thomas Dover, besides Dover's powder?

(Answers on p. 233)

EMPIRE AND FOREIGN NEWS

Cosmetics Forbidden in Jugo-Slavia.—The Jugo-Slav puppet Government has banned the manufacture of all cosmetics except tooth-paste and talcum powder.

Diabetics Rationed in Holland.—Diabetics in Holland are now being issued with coupons for insulin. The coupons generally last for three months. Old coupons are not valid, and patients who have not received new coupons cannot obtain their insulin.

Canadian Retail Drug Sales.—Sales of retail drug stores in Canada in April increased 9.1 per cent. over the April 1942 figure and 52.3 per cent. over the figure for April 1939, but were 2.1 per cent. under the March 1943 amount. Sales for the four months ended April 30 increased 11.7 per cent. over the corresponding period of 1942.

Indian Memorandum on Spurious Drugs.—The committee of the Indian Chemical Manufacturers' Association have issued a letter to member bodies in which they point out that, although the attention of the Government has repeatedly been drawn to the menace of the trade in spurious drugs by bogus and unscrupulous manufacturers, enforcement of the Indian Drugs Act, 1940, is still delayed. The Committee urge both the public and the recognised manufacturers of drugs to co-operate in combating the evil, the former by refusing to buy and the latter by keeping a strict watch on the channels through which these drugs enter the market.

Merchant Shippers and Quota Goods.—Now the Australian and New Zealand Merchants' and Shippers' Association has contrived to keep a "trickle of trade" flowing to old markets was described at a recent meeting of the Association. Where goods are subject to sponsorships by the Governments of the importing countries, the clients or principals of British buyers obtain the necessary backing and pass their orders through their normal channels. In certain other cases, which came up for discussion, the manufacturers themselves in this country were allotted definite quotas, the disposal of which was entirely within their own province. If a manufacturer had followed the line of least resistance, and disposed of his allocation to the first buyer who came along, or, as has been done in isolated instances, placed the entire quantity with one or more of his overseas agents, he expressed wishes of the Board of Trade that the small quantity available should be as widely spread as possible would have

been defeated. In many instances the manufacturer in possession of a quota had immediately advised the British buying houses that had hitherto placed orders with him of the quantity available to those houses in relation to the manufacturer's pre-war production, and had thus ensured a wide and equitable distribution through established channels.

Indian Pharmaceutical Distributors.—The third annual meeting of the Pharmaceutical and Allied Manufacturers and Distributors Association, Ltd., was held in Bombay on April 26. The president (Dr. M. Venkatrao) said the Association had succeeded in acquainting the Government of India with its activities, and the Director General's Office had now officially recognised the Association. In post-war reconstruction an important point was to encourage only such Indian manufacturers as were turning out goods of standard quality. There were firms which manufactured, advertised and sold many "rubbishy" things. Such people were a menace to the pharmaceutical industry and a danger to public health. In his opinion it would be necessary to request the Government to put in force the Drug Act. The country did not want imitators of foreign products, but needed genuine producers. Some manufacturers in England had already established their packing departments in India for issuing their products. It was possible that many such houses would establish factories in India after the war. At any rate the pharmaceutical industry in India must be encouraged. All would agree with him that it was essential to give the right kind of co-operation to genuine manufacturers. There was a hue and cry from the general public that a good deal of profiteering was going on in medicines, but he could assure them that, so far as member firms were concerned, they had not stooped to profiteering. Some members were trying their best to check profiteering by insisting upon dealers adhering strictly to the standard prices fixed by them. Unfortunately restrictions on the import of essential medicines had caused a rise in market prices, and some people were taking advantage of the situation. He therefore felt that the Government should grant import licences to reputable concerns. The following officers were unanimously elected: *President*, Mr. R. A. Haryott, M.P.S.; *Vice-president*, Mr. E. W. Fairbrass, F.C.S., M.P.S.; *Secretary*, Mr. K. J. Madon; *Treasurer*, Mr. H. W. Fieth.

TOPICAL REFLECTIONS

Problems in Education

Your discussion of post-war planning in education (p. 197) is helpful; and the annual "Notes" associated with it (pp. 192-94) preserve, under the limitation of war-time conditions, the continuity of a long-series of Educational Numbers of *THE CHEMIST AND DRUGGIST*. The point that chiefly attracted my attention in your editorial article was the mention of a suggested "system of compulsory part-time education in working hours for young persons up to the age of eighteen." This is undoubtedly one of the most important matters that need the attention of the Education Committee of the Pharmaceutical Society: we must hope that this attention is already forthcoming. Apprenticeship or pupilage is an educational as well as a vocational training. It follows, I think, that from the time the articles of pupilage are signed the student should be so directed that his or her energies are systematically applied to whatever is calculated to give the best results in post-graduate life. This policy raises in another form the old question of the time when general education should become subordinate to vocational education. That time, I suggest, is for pharmacy the beginning of the apprenticeship period. The conception that young persons should continue to receive some kind or kinds of education till they reach the age of eighteen is likely to be put into practice; and we had better be clear as to what the effect of its impact on pharmacy is to be. Difficulty will arise if any Government proposes to add to or to vary the exacting syllabus now in force for pharmaceutical students. That syllabus must necessarily be revised from time to time so as to remain in line with the changing requirements of science; but the revision should be effected by educationists with experience of pharmaceutical examinations. Otherwise the activities of students may be misdirected and frittered away.

Chemists and Parliament

The meeting of a division of the North London Pharmaceutical Association for the purpose of hearing addresses by two members of Parliament, Mr. Hugh N. Linstead and Mr. Beverley Baxter (p. 202), was an occasion of much interest. It has a long-distance value in addition to its immediate usefulness, in that it suggests the possibility of a campaign—if I may paraphrase Robert Lowe's well-known saying—to educate our legislators in the rudiments of

pharmaceutical policy. Some of us have the privilege of knowing members of one or two houses who need no such education; but there are others. At the Cardiff meeting of the British Pharmaceutical Conference in 1930 the late Mr. William Bennett, M.P. made, I was told, some pointedly humorous remarks on the impressibility of his parliamentary colleagues when an attack on their sympathies was sufficiently massive. We are now encouraged by a presentation of this idea from another angle—the suggestion of Mr. Baxter that every branch of the Pharmaceutical Society should invite its local member "to meet them and Mr. Linstead and explore. . . ." Letters and telegrams sent to our legislators (whose correspondence is understood to be heavy) may be dealt with by a non-committal reply—as in the famous formula attributed to Disraeli, "I hope to lose no time in reading it": attendance at branch or association meetings may yield better results.

The Royal Institution

The Royal Institution, the subject of an illustrated article on pp. 188-89, finds appropriate mention in an Educational Number of the *C. & D.* The difficulty of "placing" the Institution, referred to by your contributor, is perhaps due to the fact that there is something peculiarly British about it. The types of research fostered by the Royal Society are for the most part purely scientific: the Royal Institution invites lecturers on literary subjects and on the fine arts as well as scientific experts. Rumford, its founder, is better known for his improvements in domestic stoves, it is fair to say, than as a contributor to learning. Looking back to 1799, we can see that the Institution has popularised science, art and literature in a unique way by its recognition of various cultural subjects as parts of the heritage of educated people. No comparable body, so far as I am aware, has been able to command the services of authorities of similar rank for specific courses. The prestige thus created has materially aided scientific advancement. An example is afforded, in retrospect, by an amusing incident that occurred in one of our universities just over a century ago. Someone had been explaining one of the electrical discoveries of Faraday to a distinguished classical scholar. The great man commented "I am sorry to hear it," and after a pause added: "It is putting a new weapon in the hands of the incendiary."

Xrayser

A PHARMACY ACT TEST CASE

at Huddersfield, on August 20, the Pharmaceutical Society of Great Britain brought an action against Thomas Horton, Merchantile Chambers, High Street, Merthyr Tydfil, under Section 9 of the Pharmacy and Medicines Act, 1941. The summons related to the publication of an advertisement (a label) referring to Veribest brand 'Ladies' Special Capsules in terms calculated to cause people to buy them for an unlawful purpose. Mr. H. L. Thackwray appeared for the Society and Mr. J. Wurzal for the defence.

It was stated by the prosecution that the Society had been approached on defendant's behalf as to whether words on the package in which certain capsules were sold came within the terms of the Act, and whether words printed on a slip attached to the package or placed inside it kept within the Act. The words principally complained of on the slip were: "Not to be taken in case of pregnancy." Mr. Roberts, an inspector under the Pharmacy and Poisons Act, visited the shop of Mrs. Williams in Macaulay Street, Huddersfield, and there saw boxes containing "Ladies' Special Capsules" made by defendant trading under the name of Beattall's and using the trade name of "Veribest." Mr. Roberts told Mrs. Williams who he was and brought the matter before the Society. The contention of the prosecution was that the advertisement, the make-up of the box and the wording of the slip would lead persons to buy the capsules for the purpose of procuring a miscarriage.

When Mr. Thackwray said he proposed to call the medical officer of health and an Infant Life Protection visitor, the Stipendiary asked whether such opinion was relevant and it was explained that the purpose of the case was to show the effect it would have on the minds of certain people.

Mr. W. R. Roberts gave evidence of the purchase of the capsules and produced correspondence between defendant and the Society in which defendant had stated he was anxious to conform with the Act. Cross-examined by Mr. Wurzal, witness said that he did not think defendant had the labels printed in an attempt to comply with the Act. He agreed that before the issuing of the Act the capsules were sold for many years without the label complained of. Dr. J. M. Gibson, medical officer of health, said that he noticed the words "Not to be taken in case of pregnancy" in

heavy type. He had the impression that a drug was being sold which would intercept pregnancy. Cross-examined, witness said that the combination of ingredients in the package would have no effect on the ordinary healthy woman. There was one ingredient which might in some cases have an effect, but he doubted if it would in the small quantity in which it was present in that compound. Dr. Gibson was of opinion that the wording of the label was calculated to lead to the use of the drug for the purpose of procuring a miscarriage. The compound was not so objectionable without the label as with it.

Mr. Wurzal: Numerous drugs are sold labelled "Poison: Not to be taken"; skimmed milk is labelled, "Not to be given to children"; embrocation, "For external use only." Would you say these words would lead people to take them for the opposite purpose?—No.

The Stipendiary: People do not take embrocation for internal use, but they do take things to stop pregnancy. The two cases are not parallel.

Mr. Wurzal said that the only issue was whether the terms of the advertisement were calculated to cause the use of the article. The Society expressed the view that the original advertisement was not challengeable, but were of the opinion that the addition of the label brought the matter within the scope of the Act. Mr. Wurzal contended that if the original label did not have the effect alleged the added words could not make them have that effect. He had indicated other drugs and articles sold to millions of people all under a prohibitive sense. Was there any difference between the prohibition of an article such as one mentioned in that compound and the prohibition against taking a poison which might have a harmful effect? Was it to be said that the prohibitive label was likely to increase the prohibitive use of the poison?

The Stipendiary said that Mr. Wurzal had made use of a very ingenious argument, but it left out of account human nature. A person took the article mentioned for the very purpose of stopping pregnancy.

The Stipendiary found that the terms of the label were calculated to lead women to think that the use of the article would stop pregnancy. Whether it would or would not produce that effect was another matter. There was a clear breach of the Act and he imposed a fine of £5.

LEGAL REPORTS

Powder Puff Prosecution.—On summonses by the Board of Trade Miss Anita Stephen and Mr. Alexander Lakah, cosmetic factors and wholesalers, formerly of Grosvenor Street and now of Tenterden Street, London, W., were each fined £15 at the Marlborough Street Police Court, on August 10, for supplying 17,646 powder puffs (prohibited goods) to the value of £470 without a licence between October 1, 1942, and January 1, 1943; and Anita Stephen, Ltd., for supplying 14,000 odd to the value of £533, from February 1 to April 12, 1943, were fined £183 9s. 3d. Other summonses were dismissed on payment of 5 guineas costs.

Mr. Nigel Hugh Curtin-Raleigh, prosecuting, said the two defendants had carried on a partnership as cosmetic factors, and in January 1943 the partnership business was taken over by Anita Stephen, Ltd., the defendants being the sole directors and shareholders.

Pharmacy Undertakings Order.—At Bow Street Police Court, London, recently, Constantine & Jackson, Ltd., chemists, Chancery Lane, W.C., were summoned for having failed to furnish to the Central Pharmaceutical War Committee a return relating to their retail pharmacy undertaking. The proceedings were taken under Regulation 55 of the Defence (General) Regulations by the Minister of Health, the competent authority for the purpose of the Pharmacy Undertakings Order, 1942.

Mr. A. Wiltshire, prosecuting, said the Central Pharmaceutical War Committee sent out requests to chemists for particulars of the business carried on by them. They heard nothing from the defendant company, and a letter was sent to them by registered post. Still no reply was received and a summons was served on them. Mr. B. M. Goodman, counsel for the defence, said the company expressed their regret for the neglect. The managing director was at present engaged in another business at Kingston. When the request for particulars was received a woman clerk, in the absence of the manager, filled in the details required and got the managing director's signature, but unfortunately she forgot to post the form back to the Committee.

The magistrate, Mr. McKenna, imposing a fine of 20s., remarked that this was a sort of thing which was rather apt to happen in these times, but it was a source of annoyance to departments when they could not get details they required.

COMPANY NEWS

D. SMITH & SON (HAIRDRESSERS), LTD. (P.C.).—Capital £1,000. Hairdresser beauty specialists, sundriesmen, et Donald Smith, director. R.O.: Imperial Buildings, 56 Kingsway, London, W.C.2.

PERSONEX ANTISEPTICS, LTD. (P.C.). Capital £100. Chemists, druggists, dry salters, etc. Joseph Barker, 8 Lindu Terrace, Bradford, director. R.O.: 2 Chapel Street, Bradford.

BRITISH CHEMOTHEUTIC PRODUCTS, LTD. (P.C.).—Capital £100. Chemists, druggist perfumers, drysalters, oil and colourmer etc. Joseph Barker, director. R.O.: 2 Chapel Street, Bradford.

UVEREX HOLDINGS, LTD. (P.C.).—Capital £100. Manufacturers of and dealer in fire appliances, chemicals, drugs and toilet requisites, etc. No R.O. given. Directors to be appointed.

MOORE MEDICINAL PRODUCTS, LTD.—Mr. J. W. Cooper, Ph.C., D.B.A., for many years chief pharmacist, Leeds Public Dispensary, and lecturer in pharmaceuticals Bradford Technical College, has been appointed full-time technical director to the company. He takes up his duties in Aberdeen on September 1.

Private Arrangement.—CHAS. HUTCHINSON NEWBOLD and THOMAS ERIC GRIFFITH trading as "Ashton's," 17 Castle Street Beaumaris, pharmaceutical chemists. A circular issued to the creditors by the Association of Manufacturing Chemists states that a deed of inspectorship has been executed in favour of Mr. Parkin S. Booth under which as inspector he controls the finances and orders and generally supervises until such time as the liabilities are discharged. It is probable that fresh capital will be introduced at an early date. The statement of affairs which Mr. Booth has prepared shows a surplus of £286, without placing any value on the goodwill, the liabilities being £850, with assets of £1,137. The stock is valued at £694 and the fixtures at £233. The business is a very old-established one. Mr. Newbold takes no active part in the concern. The business is quite a good one, the takings being in the neighbourhood of £65 a week, and Mr. Booth states that there is no reason why it should not be a source of profit to the owners and a satisfactory account to the suppliers.

TRADE NOTES

Prices Approved.—The Central Price Regulation Committee has announced its approval of permitted prices put forward by Cox, Jozeau & Co., Ltd., 74-77 Whitehall Street, London, N.1, for Genoscopoline granules.

Price Alteration.—L. Light & Co., Old Wry Laboratories, Wraysbury, Bucks, state that the price of stilbæstrol mentioned in their advertisement in the August issue of the *C. & D.* has been altered to 10s. per kilo.

Decholin Preparation.—Endocrines, Ltd., Watford, Herts, announce that Chonex dehydrocholic acid (formerly known as Decholin) is available in tubes of twenty tablets each containing four units of dehydrocholic acid.

Gain Available in Two Strengths.—Macleans Ltd., Great West Road, Brentford, Middlesex, announce that Macleans hydrogen peroxide is again being offered in 10-vol. and 20-vol. strengths. Both are available in bottles containing 4 fl. oz. Quantities of less than three doz. of either strength cannot be supplied.

Training in Pharmacy.—In addition to the schools mentioned in Educational Notes (*C. & D.*, August 21, p. 192) the following give instruction in pharmaceutical subjects:—

LIVERPOOL.—Liverpool School of Pharmacy, Intermediate and Chemist and Druggist Qualifying. Term commences September 27. Details from Principal.

LONDON.—College of the Pharmaceutical Society, Bloomsbury Square. Chemist and Druggist and Pharmaceutical Chemist Qualifying. Term commences October 6. Particulars from the Dean.

Competition Repeated.—Moore Medicinal Products, Ltd., 7 Bon Accord Square, London, E.1, state that, as many chemists have pointed out that the company's sixth competition "Brovon Expressions" appeared during Bank Holiday week-end, they were consequently unable to enter, the competition is being repeated, with a new closing date for entries being September 7.

Container Recovery Service.—Over 1,000 used fibreboard cases are collected weekly for re-use in industry by Container Recovery Service, a specialised non-profit-making branch of S.P.D., Ltd., itself a subsidiary company of Lever Brothers & Co., Ltd. The Container Recovery

Service has been extended to render assistance to a large number of other firms and a variety of trades. The Service operates for over forty factories and deals with, among other containers, those for soap. Containers for cod liver oil, orange juice and other vitamin products distributed through welfare centres are included in the recovery system. The company also act as sole official collectors for metal tube salvage, calling periodically on chemists who are the official receiving agents under the scheme.

Business Changes

MR. H. D. FYFE, M.P.S., Alloa, has acquired the pharmacy of Mr. Ivie Hair Bell, M.P.S., 1 Mill Street, Alloa.

BOOTS, LTD., have closed their branch at Central Station, Glasgow, for the duration of the war.

MISS E. M. JENKINS, M.P.S., F.S.M.C., 343 Strathmartine Road, Downfield, has acquired the business of the late Mr. John Melville at 197 Perth Road, Dundee.

D. C. JONES, chemists, 21 Aldgate, London, E.C.3, have separated the shipping from the ordinary side of their business. The shipping department is under the control of Mr. L. E. West, M.P.S.

Proprietary Articles Trade Association

Additions to Protected List.—*Wright, Layman & Umney, Ltd.*, Wright's fluid, 1s. 2½d., 11s. doz., (exempt from tax). Wright's fluid L.C.D., 9s. 10d. doz., tax one-sixth, inclusive retail price, 1s. 3½d.; 21s. 3d. doz., tax one-sixth, i.r.p., 3s. Larger sizes on application. Wright's shampoo powder, box of 7, 14s. 8d. doz., tax one-third, i.r.p., 2s. 1d. Wright's liquid shampoo, 12s. 9d. doz., tax one-third, i.r.p. 1s. 9½d. Shaving cream, 1s. 1½d., 9s. doz., tax one-third, i.r.p. 1s. 4½d. Shaving sticks, 9s. 10d., tax one-third, i.r.p. 1s. 4½d. Ointment, 1s. 0½d., 9s. doz., tax one-sixth, i.r.p. 1s. 2d.

Solport Bros., Ltd.—Portia non-flam reading shade, D.427, 1s. 9½d., 15s. doz. Portia pocket reading and sports shade, D.433, 1s. 2½d., 10s. doz. Portia Minor non-flam pocket shade, D.434, 11½d., 8s. doz. (exempt from tax).

Bengué & Co., Ltd.—Increased prices September 1. Bengué's balsam, 2s., 17s. 5d. doz., tax 2s. 10d. doz., i.r.p. 2s. 3d.; 3s. 4½d.; 28s. 8d. doz.; tax 4s. 8d. doz., i.r.p. 3s. 9d.

SEaweEDS AS FOOD AND MEDICINE

At a recent meeting of the Royal Society of Arts, E. Marion Delf, B.A., D.Sc., F.L.S., gave a lecture on "The Nature and Uses of Seaweeds" from which the following abstract is taken:—

The use of seaweeds for food has been known from very early times. They are greatly valued in the East—in Japan, coasts of China and Malay; but they are also used on the north and north-west coasts of Europe. In Europe, the commonest edible kinds are:—

Laver: Green, *Ulva latissima*, Pink, *Porphyra laciniata*.

Dulse: *Rhodomenia palmata*.

Murlins: *Alaria esculenta*.

Carrageen: *Chondrus crispus*, *Gigartina spp.*

Laver, dulse and murlins are eaten as vegetable on the coasts of Ireland and Scotland and no doubt elsewhere. The name of sea lettuce for *Ulva latissima* is suggestive. Pink laver is produced commercially in Japan, and the washed, pressed fronds are regarded as a delicacy. It is used under the name of "asakusanori" for soups, as a vegetable, or may even be eaten raw. In our own country, probably carrageen moss is the most widely utilised of seaweed products, valued for the jelly-like nature of its hot-water extract.

Iodine Content

Seaweeds as food have never been very popular in England, but several preparations are marketed at the present time and sold as "seaweed salt." This is recommended as giving a daily quota of iodine in natural form, to maintain health or to correct deficiency in those with a tendency to goitre. Some of these preparations claim to be the dried and finely powdered weed. In conformity with this claim, the powders, on moistening, swell to a gelatinous mass which has a taste decidedly suggestive of seaweed. The iodine content of certain seaweeds is remarkable in that it has to be derived from the seawater, in which only traces occur. Amongst the brown algæ, the *Laminariaceæ* are relatively rich in iodine, but the *Fucaceæ* are also used as sources of iodine in some localities. A number of red algæ also store iodine (e.g., species of *Iridea* and *Asparagopsis*) whilst a few have special enlarged superficial cells rich in iodides: these red algæ, however, do not occur in sufficient abundance, at least in Europe, to serve as a source of iodine on any commercial scale.

In the present century, interest has grown in the algæ as a source of mucilaginous substances utilised in many ways, especially in Japan, England and America. The mucilaginous substances can be divided roughly into two classes with different chemical and physical properties, those from the brown and from the red algæ respectively. The mucilaginous products of the higher brown algæ can be extracted by boiling the fresh material with a dilute solution of sodium carbonate. After a time the tissues swell and lose their shape; the mass is then filtered through cloth and, after acidifying, there forms a thick slippery substance, recognised by Stanford in 1845 as of definite chemical composition and named by him first algin, later alginic acid, since it formed a series of metallic salts like a true acid.

Commercial Products

In recent years, algin and algin derivatives have been utilised for many commercial purposes. A study of the many patents granted in this period reveals something of the progress which has been made both on the technical side and in the chemical knowledge on which that progress must be based. It has been found, for instance, that when treated with vulcanising agents, such as carbon disulphide or carbon tetrachloride, algin becomes a rubbery mass, which has been used to make rollers for typewriters among other things. By violently agitating an alkaline solution of alginates with which a small proportion of tannic acid has been mixed, the whole emulsifies and may be poured upon a glass or polished surface, giving a transparent film. It is claimed that this film is cheap, almost non-inflammable. It has been widely used as an inexpensive transparent wrapping for various classes of goods.

The purified alkaline extract of the fresh weed may, alternatively, be forced through a fine aperture, forming a viscous thread which is then spun into a bath containing a mixture of furfural, caustic soda, formalin and other substances. By this means a kind of artificial silk is produced. The thread, however, as first produced, was not strong enough for weaving, and moreover was not sufficiently resistant to soaps containing a proportion of alkali. Further processes involving treatment of the thread with salts of chromium or beryllium are alleged to have overcome these difficulties. The chromium salts, being coloured

not so suitable for subsequent dying, the beryllium salts appear to be free from this objection. The Japanese lay claim to have produced an artificial wool from seaweed (*Sargassum spp.*) by spinning the threads through into a bath which had a crimping effect.

of Alginates

In recent years, the salts of alginic acid have been obtained from species of *Laminaria* on the Atlantic coasts of Scotland. From this source one firm has been able to obtain a purified form of sodium alginate. The white powder dissolves in water to form extremely viscous solutions which are colourless, odourless and almost colourless. It is claimed that these powders or their aqueous products have been utilised in connexion with a variety of industries, including production of food and medicines, the manufacture of cosmetics, textiles, transparencies and plastics. The colloidal properties of alginates render them especially suitable as a base for creaming agents, for car polish and even for boiler treatments to prevent the deposition of "fur." These and a number of other commercial products, alginates behave as "protective" colloids, helping to keep in suspension or in solution particles which would otherwise settle as a sediment. Almost any of the larger brown algae may serve as a source of alginates. Amongst those which have already been found suitable are:—

- Laminaria spp.*, Scotland, America, Japan.
- Ulva spp.*, Japan.
- Sargassum spp.*, Japan.
- Laminaria spp.*, Japan.
- Costophyllum fustiforme* Harv., Japan.
- Ulva serratus*, Scotland.
- Ulva vesiculosus*, Scotland.
- Costophyllum nodosum*, Scotland.
- Ulva ornata*, New Zealand.
- Enteromorpha Turneri*, New Zealand.

Although so many uses have been found for the salts of alginic acid, the chemical constitution of the acid itself has been a subject of controversy. Stanford concluded that the molecule ($C_{76}H_{80}N_2O_{22}$) was a large molecule, including nitrogen, but later work on purified materials has established that it is a polymer of *d*-mannuronic acid. Experiments of Bonniksen appear to indicate that treating the alkaline salts with reagent agents causes a progressive polymerisation of the original alginic molecule, giving longer and more complex molecules in structure. It is these long chain molecules which are important for the production of textile threads and are susceptible to contraction, giving the possi-

bility of a crimping effect. Two classes of colloidal substances can readily be extracted from red algae, namely, mucilages and gels. The former may be dissolved out with cold or tepid water, the latter by boiling for a short time.

In Japan, at Osaki, a kind of seaweed glue called "funori" is made from species of *Gloiopeltis* (chiefly *G. coliformis* and *G. intricata*). It is used for adhesives and for sizing paper, fibre or cloth. A more valuable product is agar-agar, the commercial name given to the gelatinous substance extracted by boiling water. During the last two decades agar has been widely used in connexion with foods and medicines. As a laxative, it absorbs and retains water, besides acting as a lubricant. It is almost universally used as a basis for bacterial and fungal cultures, resisting liquefaction. Recently, however, a strain of bacteria has been isolated which liquefies agar but not cellulose. It has been given the appropriate descriptive name *Vibrio agarolyticus*.

Supplies of Agar

By far the greater part of the world's supply of agar came from Japan, but a considerable quantity has also been manufactured in California, though much is not sufficiently pure for bacteriological purposes. At the present time, investigations are being carried out in America and other countries with a view to developing local supplies. The rich algal flora of the coasts of S. Africa and New Zealand and of the west coasts of N. America and Canada offer many possibilities, but even in Russia during the last ten years an agar-producing industry has apparently been developed, utilising algae which occur on their maritime coasts and on the shores of the Black Sea. It is noteworthy that several of these species occur on the coasts of the British Isles, although not necessarily in sufficient quantity for the manufacture of agar, which has hitherto been imported.

Methods of Preparation

To obtain a pure agar, the freshly collected algae are bleached in the sun for some days, the process being hastened by sprinkling at intervals with fresh water. The bleached algae are then boiled with water (Japan) or treated with steam (America) and the resulting mass strained through cloth. The clear liquid is poured into shallow troughs to set, and the jelly cut into narrow strips. In Japan the process is carried out in cold weather, so that the strips contract, expelling water; in America the same

result is obtained by artificial refrigeration. In either case, the expelled water is drained off, and the remaining jelly dried and shredded for packing.

Agar prepared in this manner has been analysed and is described as "a galactan with sugar units of unusual structure." Carrageen, mucilage from *Chondrus crispus* is a "polysaccharide ester of sulphuric acid by the acetolysis of which two galactans were isolated." Both these products are water soluble. According to Tschudy and Sargent (1943) the two American species of *Gigartina* require a preliminary soaking and subsequent boiling in lime water or 2 per cent. calcium chloride in order to extract a substance giving a firm jelly. Subsequent treatment (straining, cooling and drying) appears to be the same as for the water-soluble derivatives of other types. It appears, therefore, that a number of different but probably closely related substances with similar physical characteristics are included under the general term agar. The amount which can be extracted appears to be very variable. One of the best sources, the Japanese *Gelidium Amansii*, is said to yield from 25 per cent. to 35 per cent. of its dry weight as agar.

COMING EVENTS

Notices for inclusion under this heading should be sent in time to reach the Editor in Bath not later than Wednesday morning of the week of insertion. Secretaries are advised to send copies of printed programmes of local activities so soon as they are completed.

Thursday, September 2

BIRMINGHAM BRANCH OF THE PHARMACEUTICAL SOCIETY, Grand Hotel, Birmingham, at 7.45 p.m. Mr. F. W. Adams, B.Sc., Ph.C., A.I.C., on "The Statement on Matters of Professional Conduct and Other Current Topics."

PHARMACEUTICAL CORPS.—A meeting is being held in the large Conway Hall, Red Lion Square, London, W.C.1, at 7.30 p.m. on September 27, when prizes and certificates will be presented to members who have passed the recent examinations of the Corps. Pharmacists who are not members of the Corps are invited. The Corps' examinations in anatomy and physiology and first aid will be held during the week commencing October 4; in nursing from September 28. Entries should be sent in not later than September 20 to the Corps Office, 4 Bloomsbury Square, London, W.C.1, or to section officers. The examinations will be held at the Hospital for Women, Soho Square, London, W.1.

PERSONALITIES

MR. J. E. HUGHES, M.P.S., Worth has been appointed honorary officer in charge of the decontamination squad the borough.

MR. THOMAS McLACHLAN, A.C.G.I.F.I.C., public analyst and official agricultural chemist, has removed his laboratory from 17 Bloomsbury Square to 4 Hanbury Place, London, W.1. Telephone: Mus 4501.

MR. H. W. PRATT, M.P.S., is relinquishing the managership of the Southend-on-Sea Branch of Boots, Ltd., in order to take an appointment with the medical department of the company.

LIEUTENANT FRANK NOEL REED, R.A.M.C., Tank Regiment, Eighth Army (junior division), A. Elder Reed & Co., Ltd., import export merchants, Sutton, Surrey), has been reported missing, believed killed, in J. 1943.

MR. WILLIAM LEE, M.P.S., The Vintry, Burton Joyce, Notts, until his retirement a member of the executive of Boots Pure Drug Co., Ltd.; and a director of its subsidiary companies, has been elected to the Notts County Council for the Lowdham division. Mr. Lee is a life governor of Nottingham University.

BIRTHS

BRADBURY.—At Aberdeen, on August 10, the wife of Cyril Bradbury, M.P.S., a daughter.

FLEMING.—At Creagdhru, Campbeltown on August 14, Marion, the wife of Archibald Hunter Fleming, M.P.S., of a daughter.

GAULD.—At 8 Sixteenth Street, Carden, Fife, recently, the wife of Alexander Gauld, M.P.S., of a son.

DEATHS

ASTILL.—Recently, Mr. Cyril F. Astill, Mansfield Road, Nottingham, director of Newball & Mason, Ltd., manufacturing chemists, Basford, aged sixty.

BENNETT.—On August 18, while on holiday, Mr. James Bennett, M.P.S., Brownlie Street, Mount Florida, Glasgow. Mr. Bennett passed the Minor examination of the Pharmaceutical Society in 1910.

FULFORD.—On August 18, Mr. Frank Fulford, Headingley Castle, Leeds, aged seventy-five. Mr. Fulford had been managing director of C. E. Fulford, Ltd., manufacturing chemists, for thirty-seven years.

CAMPBELL.—At Lahore, India, on April 1, Mr. William John Fraser Campbell, chemist and druggist, proprietor of Smith & Campbell,



Mr. W. J. F. Campbell

pharmaceutical chemists, aged sixty-four. Mr. Campbell, who was a native of Nairn, qualified in Edinburgh in 1904, and in 1906 went to Quetta, Baluchistan, India, as assistant to the late Mr. J. Bliss. In 1911, Mr. Campbell started business in Lahore in partnership with the late Mr. D. Smith, of Bliss & Co., Karachi. Co-operating with Mr. Kirpa Ram, of Beli Ram & Brothers, Moghulpura, Mr. Campbell, a few years ago, established a factory and laboratory for the manufacture of P. spirituous preparations on a large scale, in bond, at Moghulpura. The joint concern, known as the B.I. Drug Co., distributes medicinal products wholesale throughout Northern India. Mr. Campbell was prominent in the European Association, the Rotary movement, and the Punjab Trades Association. He is survived by a widow, a son (in the Army), and a daughter.

LAWRENCE.—On August 16, in hospital, after operation, Charlotte, the wife of Alexander Lawrence, chemist and druggist (late Great Charlotte Street), Dunollie, 56 Green Lane, Liverpool, 18.

NORMAN.—Recently, Mr. Edwin Norman, retired chemist and druggist, Weston-super-Mare, aged seventy-eight. Mr. Norman passed the Minor examination in 1889 and became Major in the following year. For many years he conducted an old-established pharmacy in High Street, and since his retirement he has been honorary pharmacist to the Queen Alexandra Memorial Hospital. He is survived by a daughter and two sons, one of whom, Dr. Ronald Norman, is in practice in Bristol.

RENWICK.—On August 14, Mr. Frank Forster Renwick, F.I.C., research director of Ilford, Ltd., aged sixty-six. Mr. Renwick be-

gan his association with the company in 1898, as a chemist. His work brought him closely into touch with the Royal Photographic Society, before which he read many papers. He was ever jealous to preserve the Society's pre-eminent position in photographic science and did much, directly and indirectly, to build up that position. For example, he was largely responsible in 1920 for the creation of the Society's Scientific and Technical Group. He was president of the Society (1927-29), and in this position his administrative ability still further increased the Society's debt to him. That same administrative capacity stood him in good stead when, about the same period, the amalgamation of Ilford, Ltd., with many other British photographic firms was taking place. To him was entrusted the difficult task of co-ordinating the laboratory staffs and services of the companies concerned, and this he did with such effect as to build a substantial research organisation on the foundations which he had helped to lay in the earlier years of the century. In this he was no doubt aided by experience gained during a brief interlude in the United States in 1922-1925, when he directed the Redpath Laboratory of the DuPont Film Manufacturing Corporation at Parlin, New Jersey, U.S.A. Mr. Renwick became F.I.C. in 1918, Hon. F.R.P.S. in 1922 and F.C.G.I. in 1930. In 1921 he was awarded the Progress medal of the Royal Photographic Society, and in 1936 was the Society's Hurter and Driffield Memorial Lecturer. In 1938 he was awarded the Pélégot medal of the Société Française de Photographie in recognition of his services to photographic science.

RECENT WILLS

MR. MARCUS STODDART, M.P.S., 45 Polwarth Gardens, Edinburgh, who died on April 9, left personal estate in Great Britain valued at £1,284.

MR. ROBERT MICHAEL TURNER, The Paddocks, Wansford, Peterborough, chemist and druggist, who died on March 12, left £3,410, with net personalty £383.

MR. FREDERICK EDWARD HUNT, M.P.S., Buckatree Hall, Wellington, Salop, proprietor of Bates & Hunt, chemists, Wellington, a director of Bates & Hunt (Agricultural), Ltd., a member of the Shropshire Insurance Committee, and a former chairman of Wellington Urban District Council, who died on July 4, left £36,063, with net personalty £23,064.



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L. CXL AUGUST 28, 1943 NO. 3316

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

Surplus Disposal and Drug-trade Development

WHAT to do with surplus stocks laid in as war supplies is a problem that will early present itself to a peace-time Government. Uncertainty as to date is offset by the twin certainties that the time will inevitably come, and that if the wrong solution is applied the result may be seriously upsetting to the nation's internal and external trade. For this reason it is as well that some thought should be given to the question of those concerned, including persons and businesses engaged in the supply and distribution of medicines and drugs. In America it is evident that the nature of the problem is already being examined (see *Chemist & Druggist*, August 14, p. 177), and while a solution that finds favour in the United States is not necessarily one that will be applicable in this country, it may be well to study the principles which our American colleagues consider should govern the disposal of surplus. If broad lines of action are agreed upon in good time by the trade, it may be possible to ensure that the whole delicate machinery of distribution is not bogged by actions which, once taken, are beyond control.

An American Pronouncement

An address delivered to the American Pharmaceutical Manufacturers' Association by Mr. T. W. Delahanty, (Chief of the Drugs and Pharmaceuticals Unit, Bureau of Foreign and Domestic Commerce) gives the clue to the American outlook. Mr. Delahanty considered that the management and plans for this war were so much more thorough and comprehensive than in 1914-18 that there should be much less cause for worry. Further, the manufacturers could plan in advance to forestall the problem, should it arise, while market research could act as a further insurance. Five points were outstanding: Cancellation of production contracts; reconversion of war plants to peace-time purposes; adjusting output to existing stocks and plant capacity; adjustment of marketing methods; and disposal of surplus. Cancellation should be of minor consequence to the drug industry, which also would not have to face in any great degree the problem of reconversion. If there existed any excess capacity it should be possible to secure its absorption by readjustment of marketing fields. The problem on which the most useful planning could be done remained the one of disposing of Government surplus material. The questions to be asked were: What will be the size, character, location, and ownership of such surplus? What should be the policy, laws, and plans for disposal? and What would be the probable effects, good and bad, of implementing the most economic and equitable method of clearance? After the 1914-18 war it took the U.S. Government over five years to dispose of its own surplus. There were outstanding contracts (not in drugs alone) for over six billion dollars, and an inventory of surplus which required two years to compile. In the early sales, complete supervision was left with the different branches of the service. It was soon realised, however, that a central unit for co-ordinating the work was essential.

Selling Methods After 1918

The four selling methods employed by the U.S. Government after the last war were fixed-price, private negotiation, sealed bid, and auction. In the fixed-price method the selling officers in charge of a department

decided on what they regarded as a fair price for a certain article, and then offered it for sale to the public. The sales were little advertised and aroused little public interest; there was, moreover, some dissatisfaction at the prices realised. The negotiated-sales method consisted in a Government official meeting a prospective buyer after some negotiation with others and agreeing on the price to be charged. This method was in vogue for a considerable time, and large quantities of goods were sold by means of it, but it did not prove satisfactory from the viewpoints either of the Government or of the public. The method was therefore discarded. Under the sealed-bid method, goods to be sold were catalogued, graded and offered for sale by sealed proposals, which were opened at a given time. Subject to Government approval, merchandise was sold to the highest bidder. The system proved more acceptable than either of the previous methods, but lacked the vital element of personal competition, since no one knew what anyone else was bidding. Frequently the spread in price between two bids on the same article was amazing.

Auctions Finally Adopted

Finally, the various Government departments began to make extensive use of the auction method. A careful check of prices in each instance revealed that the net return to the Government by the auction method was far in excess of the returns that would have been realised by the sealed-bid method. The average return was in excess of 36 per cent. of the original cost, which was considered high in view of the fact that the goods were originally purchased at inflated war prices and many were not useful in peace-time pursuits. Raw materials brought the highest percentage of recovery, because there was little or no deterioration in them. Thus chemicals and acids (which included drug products) were always in good demand. On these the Government realised about 75 per cent. of the original cost.

After the present war, the Army was likely to be twice as large as it was even planned during 1914-18, and Lend-Lease responsibility would likewise be a significant factor. Supply lines extended to forty or more fronts, and the armies were undoubtedly better supplied, qualitatively

as well as quantitatively. The surplus of all products might be many times what it was after the earlier war, but it was unlikely this would be true of drug products. Even though the surplus should prove proportionately large, the surplus would be confined to a restricted list of standard items—fine chemicals and specifics. Secondly, as the troops moved forward, relief and rehabilitation would follow as a consumer and continue for a period after the close of hostilities. Third, domestic stocks would be so low that a large amount of the military surplus could be guided to such outlets, while resumption of normal medical service and facilities and the inauguration of new projects and new enterprise, should absorb sizeable supplies. Fourthly, it was relatively certain that an important percentage of stock would have to be held for emergency requirements. Finally, the balance of what might otherwise prove to be troublesome surplus could be stepped down from medical to an industrial consumption level and offer but limited competition to the commercial demand for such products. "It would be a happy solution to the problem," said the U.S. Government spokesman, "were the manufacturers who filled the Government contracts, directly or indirectly accorded the privilege of re-purchasing any surplus, preferably on a long-term credit basis, and possibly with a protection clause to allow for deterioration, reconditioning, and price decline." An alternative suggestion might be that these manufacturers would be delegated as disposal agents for the Government on a nominal commission basis, as was the case with a surplus of thirty million lb. of phenol in the last war. Whatever disposal method was adopted, obviously the Government would be desirous of disturbing markets and channels as little as possible.

Back to Normal

In fact the number one problem of government would be to get production back into normal functioning as rapidly as possible, so as to absorb the disbanded man-power. Hence, an industry such as the drug and chemical trade, which would probably be among the least disturbed, would be expected to carry on, and even to

to a production rate in excess of the
ary base year 1940. Drug surpluses
t be a reality but should not be a
rent to progressive development, pro-
d three plans were followed:—

1. Orderly liquidation, including safeguards
against speculation.
2. Inauguration of more modern plans for
educating the public to a greater degree of
health consciousness.
3. Promotion of American therapeutic
standards and products throughout the
world.

Improving the Medical Services

educating the public to the advantages
greater health consciousness could be
participated in as a joint responsibility by
profession, research centres, producers
distributors, health facilities and
service agencies. Merely objecting
legislating against, or attempting to
neutralise the promoter of self-medication
socialised medicine was not a sensible
procedure. "If the ethical group cannot see
any way clear to facilitate a greater public
enjoyment of the fruits of science as needed
socialised, those versed in promotion
not and should not be deterred. The
growing and growing demand for
standardised vitamins, tonics, digestives,
analgesics, alleviants, antiseptics, and many
other widely publicised preparations attests
the gap in ethical service. Nevertheless,
solution to the problem along ethical
lines should be feasible, and when adopted
it will be such a boon to the profession and
collaborating industry that the post-
war surplus would become insignificant.
Finally, out of the war should emerge an
American drug and pharmaceutical indus-
try internationally recognised as the
best in the world. Now is the time to
solidate and expand our status. . . .
in the United States Government are
doing everything we can think of to
contribute to this desired end. . . . I
sincerely wish to focus your thoughts on
the aggressive cultivation of world
markets that, in future years, the American
drug industry will be as potent a factor in
the maintenance of world peace as was the
American drug industry in an attempt to
prevent world chaos. Within the past month
the Departments of Commerce and State
have initiated a drive to replace all enemy drug

producers and distributors in Latin America,
and before the year is over we hope this
plan will be an accomplished fact."

Whether British producers and the
British Government will be equally ready
to seize the post-war opportunity—they
have not the same opportunity at present
as their U.S. counterparts—depends on the
constructive thinking that is being put in
by both parties today.

RECENT RESEARCH

Acidity of Proflavine Sulphate.—Albert
and Gledhill ("Lancet," August 21, p. 238)
caution users of proflavine sulphate (the
compound in the form of which proflavine
is mainly available) against the potentially
irritating character of its high degree of
acidity (pH 2.5 in 0.1 per cent. solution).
They suggest overcoming this drawback
by converting the acid salt to the normal
at the time of dispensing (e.g. by warming
1 gm. proflavine sulphate and 0.25 gm.
sodium bicarbonate with 40 mls water
until dissolved, and diluting to a litre). The
resulting 1 per cent. solution has a pH of 6.
The authors also see no reason why neutral
salts of proflavine should not be commer-
cially available, and have themselves pre-
pared suitable solutions of the benzoate,
benzenesulphonate and salicylate.

Iodine as Water Steriliser.—Renshaw
("Lancet," August 21, p. 237) finds that
when 1 mil of typhoid culture is mixed with
100 mls of ordinary tap water to which an
aqueous solution of iodine and potassium
iodide (Lugol's solution) has been added
to give a proportion of one part of free
iodine in 20,000 parts of the water, com-
plete sterilisation is effected within ten
minutes. In tests to find the action of
iodine against *B. coli*, *B. typhosus*, *B. para-*
typhosus A and B, *B. dysenteriae* and *Vibr.*
cholerae, a 1:20,000 dilution of iodine was
sufficient to effect complete sterilisation
within ten minutes of treating the infected
water. To compare the relative merits of
chlorine and iodine, 1 mil of a recent 48-
hour broth culture of *V. cholerae* was added
to distilled water, which with the added
antiseptic totalled 100 mls. The volume of
iodine solution when added to 100 mls of
water corresponding to an ultimate dilution
of 1:20,000 was only 0.1 mil, against
2.5 mls of bleach solution, so that only one
twenty-fifth of the volume of iodine solution
need be carried for ready and instant use
compared with bleach solution.

TOILET PREPARATIONS RESTRICTIONS

THE Board of Trade announces that the Toilet Preparations (No. 3) Order (S. R. & O., 1943, No. 1213), which comes into operation on September 1, 1943, is now available. The principal feature of the new Order is that it replaces the quota control by a system of individual licensing of registered manufacturers. The main points to be noted are as follows:—

Registered and Unregistered Manufacturers

Registered persons may not manufacture toilet preparations or supply such goods of their own manufacture except under the authority of a licence issued by the Board of Trade. Registered persons need not apply for these licences. The licences will state:—

(a) The premises on which manufacture may take place.

(b) The total value of toilet preparations which may be supplied during the four months ending with December 31, 1943.

(c) The types of toilet preparations which the licensee may supply.

(d) The size of the prepacked units in which he must supply these preparations, unless the licence specifically permits them to be supplied in bulk.

(e) The minimum value of each unit which is to be counted against the licence. Any item may be sold at a lower price than that given in the licence, but the value to be counted against the licence must be that given in the licence. If, however, goods are sold at a higher price than that given in the licence the value must be taken as the selling price.

Suppose a manufacturer is licensed to supply £2,000 worth of lipsticks, and the minimum value of these lipsticks to be counted against this licence is 12s. per dozen. If he charges 12s. per dozen he can supply 40,000 lipsticks and even if he chooses to sell them at 6d. each, he may still supply only 40,000, because for the purpose of his licence he must still count the value of each lipstick as 1s. and not 6d. If on the other hand he sells at 2s. per lipstick it will be 2s. per lipstick which will count against the licence and he will be able to supply only 20,000 lipsticks. The purpose of this method of control is to fix the maximum quantity of toilet preparations of his own manufacture which a manufacturer may supply in a given period.

Unregistered persons who were supplying toilet preparations of their own manufac-

ture on October 1, 1941, may continue to supply such goods to a value of £41 13s. a month. All other unregistered persons who were prohibited under the previous Order from supplying goods of their own manufacture, are now also prohibited from manufacturing.

Marking of Toilet Preparations

All toilet preparations must be marked on the innermost container with: (1) the name and address of the manufacturer, of the licensed packer who repacked them, and (2) an expression indicating that they are toilet preparations, e.g. face powder, cleansing lotion; the letters T.P. will suffice for this purpose if the name of the product given on the container is sufficient. Wholesalers have until November 30 to clear their existing stocks of goods not so marked; retailers are given until December 31, 1943.

Goods which do not come into the seller's possession as toilet preparations may not be sold by him as toilet preparations, nor may they be sold to persons whom he has reason to believe require them for use as toilet preparations. This provision does not of course apply to the supply of goods by the persons who have manufactured them.

Packing

As before, no person may repack toilet preparations which are not of his own manufacture without a licence, except in the case of goods supplied by a retailer on or after an order from a customer. Special attention is called to the new provisions by which a registered person may (a) pack toilet preparations which he has already supplied to another person, (b) use containers which do not belong to him, or which he has acquired from the person to whom he is supplying the packed products.

Supply of Materials

Materials for making up into toilet preparations, whether in sets or otherwise, may be supplied only to authorised manufacturers.

Additional Licences

Application may be made to the Board of Trade for the following concessions:—

(a) By registered manufacturers who were making baby powder during the standard period for permission to make extra supplies of baby powder.

By registered manufacturers who have stocks of petroleum products red before January 1, 1943, which they to make up into hair preparations.

By registered manufacturers who to continue to supply powder which had in stock on December 31, 1942, under the present arrangements.

By unregistered manufacturers who stocks of petroleum products in excess of five gallons which they acquired before January 1, 1943, and which they wish to make up into hair preparations.

Petroleum and Certain Solvents

In the manufacture of hair preparations containing petroleum products and of other preparations containing more than 200 parts in 200 by weight of certain solvents prohibited after January 31, 1943, by the Toilet Preparations Order, 1942. Under the new Order the supply of these products is prohibited as follows: (a) Hair preparations containing petroleum products: registered persons may not supply goods of their own manufacture except under special licence, and such licences will not permit supply after December 31, 1943. The supply of these goods by any other persons, including wholesalers and retailers, is prohibited after February 29, 1943.

(b) Toilet preparations containing more than one part in 200 by weight of petroleum, etc.: registered persons may not supply these goods of their own manufacture except under licence, and such licences will not permit supply after October 31, 1943.

The supply of these goods by any other persons, including wholesalers and retailers, is prohibited after December 31, 1943.

Records and Returns

It should be noted that (a) unregistered, as well as registered, manufacturers must in their books keep separate records of the quantity and value of their sales of products manufactured by them; (b) registered manufacturers are required to make a return to the Registrar of Trade showing the quantity and value of their supplies of goods of their own manufacture during the four months ending December 31, 1943, and thereafter every four months.

Shampoos

Shampoos are controlled under this Order: they are controlled under Orders made by the Ministry of Food.

TRADE MARKS

(From "The Trade Marks Journal," August 11)

"PLIOPLAST"; for surgical bandages (5). By The Goodyear Tire & Rubber Co., 1144 East Market Street, Akron, Ohio, U.S.A. 620,097 (Associated).

"HANKIDRIN"; for disinfectants and antiseptics for use on handkerchiefs or on paper or fabric tissues for use as handkerchiefs (5). By G. W. Taylor, 40 Duncombe Street, Walkley, Sheffield. 622,578.

"EYLENA"; for pharmaceutical preparations for the eyes (5). By E. Griffiths Hughes, Ltd., Peru Street, Adelphi, Salford, Manchester. 623,092.

"CELLIBON"; for pharmaceutical substances for human and veterinary use, sanitary substances, disinfectants and preparations for destroying weeds and vermin (5). By Cellon Laboratories, Ltd., 380 Richmond Road, Kingston-on-Thames. 623,285.

"LILIA" with conventional device of lily; for menstruation appliances (5). By Lilia, Ltd., Paragon Works, Neptune Street, Hull. 623,213 (Associated).

"TEMPARIN"; for pharmaceutical preparations (5). By Herts Pharmaceuticals, Ltd., Bessemer Road, Welwyn Garden City, Herts. 623,629.

APPLICATION AMENDMENT

According to "The Trade Marks Journal," August 11, 1943, specification No. 622,672, by Antiseptic Products, Ltd., has been altered so as to read: "Analgesic tablets for oral administration."

CONVERSION OF SPECIFICATION

Section 36 (3) and Rules 6 to 8

To Schedule IV (with amalgamation): No. 69,990 by Joseph Crosfield & Sons, Ltd.

TEMPORARY SUSPENSION

According to "The Trade Marks Journal," August 11, 1943, Trade Mark "DECHOLIN," No. 489,836, by Endocrines-Spicer, Ltd., has been temporarily suspended from July 24.

(From "The Trade Marks Journal," August 18)

"METTARAY"; for photographic chemicals, plates, films and paper (1). By Austin Edwards, Ltd., Coventry Road, Warwick. 623,242 (Associated).

"SARAKAN"; for tooth-paste (3). By F. H. G. Haldwell, Glenholme, 24 Westfields, Richmond, Yorkshire. 611,201.

"MAM-SEL" in script characters; for laundry washing powders (3). "MODOME"; for non-medicated toilet preparations (3). By W. E. Baldwin, Station Approach, Waltham Cross, Hertfordshire. 622,082; 622,233.

"STEX"; for washing preparations for stockings (3). By H. C. Fleischer, 92 Regent Street, London, W.1. 622,704.

"NOMO-ODO"; for non-medicated toilet powder (3). By Lewis (Import & Export), Ltd., 38 Great Portland Street, London, W.1. 623,360.

ITALY AS DRUG SOURCE

Now that the Allies have reached a conclusion in Sicily, and are increasing their pressure on the mainland of Italy, they will be depriving the Germans of some raw materials they can ill afford to do without. Italy is not a source of a great variety of drugs, but is in the position of being rich in one or two minerals that are scarce in the rest of the world, and of cultivating one or two plant varieties that yield oils of outstanding quality.

Sicilian Sulphur

The first of the Italian drugs to be liberated is sulphur, which is plentiful in the volcanic regions of Sicily, as well as in Calabria in the "toe" of Italy, and farther north in the Romagna district centred round the port of Ravenna on the northern Adriatic coast. There is certainly no Italian monopoly of sulphur, which is to be found in widely scattered localities throughout the world. But with a production in 1938 of 2,717,445 long tons (rock, crude fused and crude ground) Italy's production exceeded that of the United States of America (2,397,082 long tons, crude and by-product sulphur) in 1938. In the two preceding years production from these two sources was about equal, and each was over sixteen times that of the British Empire and Palestine. In Sicily the sulphur is obtained from the crude ore by melting it in a kiln either by setting fire to a portion of the material or by external heating. The molten sulphur is run off into moulds constructed of damp wood. It still carries impurities, and is purified by distilling from iron pots, condensing in a stone chamber either as "flowers" of sulphur or as a liquid which is cast in cylindrical moulds as roll sulphur. It can hardly be contended that the loss of Sicilian sulphur will be vital to German industry, but another natural product of the island, lemon oil, is of such value that its loss to the German army and civilian population will be keenly felt. Its ultimate utilisation by the Allies will be no less keenly welcomed.

Sicilian Lemon

By reason of its quality Sicilian lemon has long been held in the highest esteem in this country and even in the United States, itself a producer of lemon oil. So far as this country is concerned the Californian oil was increasing in popularity in the years before the war. Its price was,

of course, attractive to buyers, and on the score of quality it was guaranteed. Nevertheless, it is doubtful whether the Sicilian product would have ousted from pride of place had it not for the war, and difficulties in shipping have, in fact, resulted in Californian also being almost entirely beyond the reach of British consumers. From the following table of exports (in kilos) of Sicilian lemon oil in 1937 and 1938 it will be seen that the United States was herself a not inconsiderable buyer, though, of course, well below the United Kingdom.

| | 1937 | 1938 |
|--------------------------|--------|---------|
| Australia | 9,571 | 9,400 |
| France | 44,549 | 41,200 |
| Germany | 41,681 | 48,300 |
| Holland | 16,038 | 16,600 |
| United Kingdom .. | 91,706 | 113,900 |
| United States of America | 43,517 | 34,700 |
| Italian Africa .. . | 445 | 700 |
| Elsewhere | 23,019 | 23,500 |

The shipments of Sicilian lemon oil in 1937-38 to this country were especially high, actually exceeding production in those years. Thus the average amount exported in each of the two years was 304,000 kilos, although production was 221,260 kilos in 1937 and 267,000 in 1938. Besides indicating that buyers in this country were at that time stocking against a possible emergency, the table also illustrates a property of the oil which explains its greater popularity among Italian growers over, for example, orange oil. This property is its keeping quality which enables any surplus production in any given year to be held in reserve until demand catches up with supply. In part the distinctive quality of the Sicilian oil derives from the method by which it is obtained from the fruits. The small fruit ("throw-outs") are the ones chiefly employed in the production of essential oil, and the process of extraction has remained unchanged despite the use of modern machine methods in other production centres such as the United States and Algeria. Pulp is separated from peel by means of a hemispherical spoon after the lemon has been cut in two. The peels are expressed upon coarse sponges by a turn of the wrist of an experienced man or by a simple lever. The advantages of this

od are that it yields an oil scarcely red by the xanthophyll of the peel, ally free from water, and rich in yde. Enzyme action is at a minimum, freshness and aroma are preserved. To Africa Korps Italian lemons must have invaluable in preventing avitaminosis and if rumour is even partly correct

present diet of population of the n is not so rich in vitamins that the us material can easily spared. e Sicilian in- y is centred on na, with sub- y production es at Palermo a which port, in- tally, supplies e United States chiefly sent in days before the and Catania, all of them towns n were frequent- mentioned in the niques from ral Eisenhower's quarters.

orian Bergamot ossing to the land, the Allied es will, assuming land in Calabria, pe in lemon-pro- g country, but il that assumes greater impor- on the mainland of the Messina

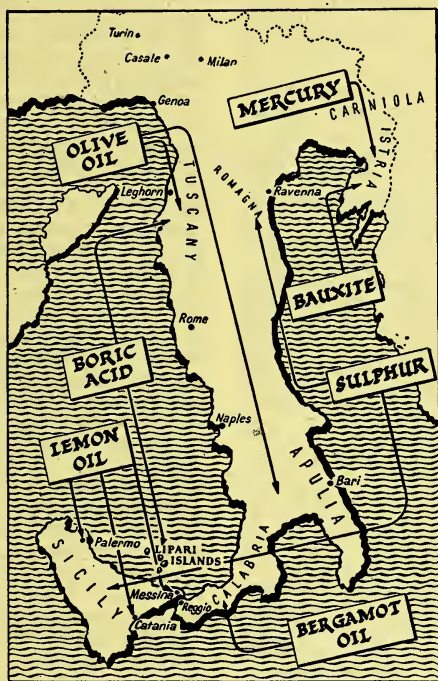
ts is bergamot, which is to all intents and oses a Calabrian monopoly. Although oss of bergamot oil will have no effect the outcome of the war, its loss to many will not be without piquancy use it is the most characteristic ingre- e of eau de Cologne, of which the two universally known brands still ema- from the Rhineland city. The centre bergamot oil is Reggio, mainland nus of the Messina ferry, and it is erted that the town has already been uated by Italian troops.

an Boric Acid

assing from the foot of Italy through olive groves of Calabria and Apulia, n invading troops will next reach impor-

tant mineral country in Tuscany; they have already occupied the Lipari Islands situate to the north of Sicily. In both places they will be in boric-acid-producing territory. For commercial purposes the chief source of this raw material is a group of communes in Tuscany. Here, in a desolate stretch of country, springs of boiling water and jets

of hot vapours spurt from fissures in the ground (*soffioni*) or beneath muddy lakes (*lagoni*). The vapours have a boric acid content usually below 1 per cent., and extraction is carried out in a series of basins constructed over the vents, water passing by gravitation from one to another. The heated gases soon raise the water in the first to boiling point, and it remains in contact with them for twenty-four hours before passing to the next. The liquor in the final basin of the series contains about 2 per cent. boric acid. It is evaporated in shallow lead-lined pans, again by means of the vapours, until at a crystallising concentration. Purification is effected by re-crystallisation of the resultant product.



Italy: Location of mineral and vegetable drug sources

Carniolan Quicksilver

Not until they have occupied the remote north-eastern territory of Italy—the Istrian peninsula—will the Allied troops be in a position to deny to Germany the most valuable mineral of all: mercury. This metal is vital to the armaments industries, and the Italian partner in the Spanish-Italian quicksilver monopoly (*Mercurio Europeo*) produced more than 50 per cent. of the total output of the combine during the years 1936, 1937, 1938, as will be seen from the table to be found on the next page, which gives exports in lb. of the three principal producing countries at that time: Italy, Spain and the United States of America.

The value to this country of this metal is suggested by the advance in prices that took place between the commencement of

| Mercury producer | 1936 | 1937 | 1938 |
|--------------------------|-----------|-----------|-----------|
| Italy .. | 3,247,620 | 4,868,000 | 5,073,000 |
| Spain .. | 3,220,000 | 3,200,000 | 3,200,000 |
| United States of America | 1,259,244 | 1,254,608 | 1,367,316 |

the war and the imposition of a Government control in May 1941. From £16 10s. per bottle in August 1939 the price jumped to £16 16s. on September 2 of that year when, after war had been declared, all prices were temporarily withdrawn. On September 23 quotations were again made, but only in terms of U.S. dollars, the figure being \$86, or approximately £21 10s. Within six or seven weeks the price advanced to \$110, and by December 23 the only available quotation was \$150 f.o.b. Mediterranean port (no ex-store quotations). On February 13, 1940, the London quotation was \$207, and when next quoted in sterling in mid-April, quicksilver had advanced in price to £51 8s. 6d. The peak price was reached in July at £54 10s., a price which prevailed until December 14, 1940, after which the figure gradually receded to £48, the price at which it was fixed by the Control applied, as already stated, in May 1941. It need not be assumed that loss of the Italian mercury production to Germany will be crippling, for it must be anticipated that supplies will be available to her from a friendly if neutral Spain. But there is no doubt that every effort will be made to hold the Istrian mines at all costs, not only to conserve her own supplies but also to withhold them from the Allies.

One other Istrian mineral, bauxite, is worth mention for a somewhat analogous reason. Since the collapse of France, the heaviest producer of bauxite, this country has felt acutely the loss of access to this aluminium ore. Germany was herself far less dependent on France, but doubtless placed a high importance on depriving this country of the French ore. The Italian bauxite deposits, if and when they fall into Allied hands, will go some way towards equalising the supply position and depriving Germany of her advantage in this respect.

Citrates and Tartrates

In the past Italy has held a dominating position in the commerce of citric acid by virtue of holding 90 per cent. of the

naturally-occurring calcium citrate in world. Of recent years her hold has challenged by material produced by fermentation process from sugar, an industry largely stimulated by Italian money that tended to over-exploit the advantage of her virtual monopoly. The chief source of the calcium citrate within the Italian borders was in Sicily. It was under control of the Camera Agrumaria, Messina. In the 'eighties of the last century money this was exported unchanged, and early attempts by the Italians (1884) to manufacture citric acid met with little success. In 1912 only one factory for citric acid manufacture existed in Sicily. This was Palermo. The following year German interests founded the Fabbrica Chimica Arenella at Palermo, and this was more fortunate. During the war of 1914-18 it passed under Italian control. The process of producing citric acid by fermentation commenced in 1923 in the United States and within a few years the quantities of calcium citrate exported from America to Britain were serious enough to challenge the Sicilian industry. In 1927 the Italian Government placed an embargo on the export of calcium citrate from Sicily, hoping by this means to capture the citric acid industry. In 1928 the whole industry was reorganised and put under a commercial sales organisation: the Consorzio Italiano Fabbriche Acida Citrica. Manufacture was centred at the Arenella factory already referred to, and at the Sada-Boisurgi works at Messina. These moves failed to stop growing importation into Britain of American material and later two British manufacturers (Kemball, Bishop & Co., Ltd. and John & E. Sturge, Ltd.) started to exploit the fermentation process in this country. Thus further threatened, Italian producers entered into an agreement (the International Citric Acid Agreement) with manufacturers in Britain, France, Belgium and Czechoslovakia to apportion supplies on an approved basis. Great Britain was about that time easily the largest buyer, as will be seen from the following figures for exports in quintals of citric acid from Italy in the first few months of 1935 to principal destinations: Great Britain, 1,746; Argentina, 95; Holland, 524; Germany, 434; India, 42; Spain, 415. Comparative production was in 1935:—

| | |
|--------------------|------------------------------------|
| United States .. | 10,493,068 lb. |
| Italy (exports) .. | 3,680,000 lb. or 1,670 metric tons |
| Czechoslovakia .. | 577 metric tons |
| Germany .. | 75 metric tons |

ter the outbreak of the present war the sh Government prohibited importation tric acid, while British makers under- that consumers should not go short. uction by that time was in excess of estic consumption.

orning, to cream of tartar, one is con- with a chemical of which the world's st sources are French. Italy, however, considerable producer of wines, and fore possesses the raw materials for n of tartar manufacture in important- ities. Evidence given at a Board of e inquiry under the Safeguarding of stries Act (see *C. & D.*, 1922, I, 58)

was, nevertheless, that "imports from Italy were relatively small until we had to avail ourselves of her source of supply during the war." Like the wine industry itself, cream of tartar production is general in many parts of Italy. Important centres are at Bari in the "heel" of Italy, Casale Monferrato in Piedmont, and Milan. In this country, domestic production is by no means self-sufficient even in war-time, and in 1942 the Ministry of Food had to announce that both cream of tartar and tartaric acid supplies were limited, and that further stocks were not likely to be available to the baking industry.

CASE FOR U.S. PHARMACY CORPS

ERS of the pharmaceutical profession e United States of America presented case for a Pharmacy Corps in the Army before the Committee on Mil- Affairs of the House of Representatives arch 2. The functions of such a corps d be "the purchase, storage, shipment, ardisation, compounding and dis- of drugs and medicines for the d forces and to elevate the standard armaceutical service in the Army to igh level maintained by the profession il life." Pharmacy's spokesmen ex- ed the educational requirements that uard the civilian practice of pharmacy, asting them with the present Army m of delegating certain pharmaceutical s to physicians, training men in y-day courses to perform other phar- utical tasks, and failing to utilise and rly recognise the services of registered nacists. Dr. Kendig, representing the ican Pharmaceutical Association and bodies, summarised the case as:—

diers in the Army are not accorded the protection in the use of drugs that they receive as civilians.

e Pharmacy Corps Bill provides the inery whereby the present hazards to rs would be eliminated.

e establishment of a Pharmacy Corps in regular Army would release physicians, ons, dentists and veterinary surgeons from pharmaceutical duties as they are now rning to attend to the services for which are educated.

e Pharmacy Corps would not present ew administrative problems, and the cost e taxpayers, if any, would be negligible e face of the financial savings that might pected.

Physicians with Insufficient Training

ean Kendig showed, from the Army's es, that, of the pharmacists needed to

serve an Army of 7,500,000, only 9,975 could be expected through the call-up; 3,577 pharmacy technicians, therefore, would have to be trained in Army schools during 1943. This meant, he observed, that 26 per cent. of the individuals rendering pharmaceutical services in the Army by the end of 1943 would be men of insufficient training, who would not be permitted to compound and dispense drugs and medicines to civilians in any state in the Union. He continued that, of seventy reports received from men in the service, sixty-two revealed that men with ninety days' pharmaceutical training were performing duties that would not be permitted in civil life under state pharmacy laws, and thirty-three stated that the individual actually in charge of the pharmaceutical work was a ninety-day technician or some other unqualified person. He answered those who state that there is little compounding and dispensing in the Army and that most drugs are put up in tablet form the labels of which "any intelligent boy can read," by asking the Committee to study the contents of the Army drug supply schedule. "You will find listed every narcotic, potent, and dangerous drug used by the physician in the treatment of disease," he said. Any intelligent boy might be able to read the labels, but the names would be meaningless to him.

18,000 Prescriptions a Month

"Actually, the Medical Pharmacy Corps at Scott Field fills over 18,000 prescriptions a month for major and minor illness . . . despite the fact that this post has one of the best health records in the entire country. That amount of prescriptions calls for 425 gallons of liquids, 120 pounds of ointments and 15,000 capsules."

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, August 25

ACCORDING to reports to hand this week conditions in all markets continue steady, with business varying from decidedly quiet to a fair demand, the latter comment referring to a limited range of products. It is pointed out that there would be a good deal more business moving if supplies of the many wanted materials were more freely available.

In the PHARMACEUTICAL CHEMICALS section the advances in GALLIC, PYROGALLIC and TANNIC ACIDS noted last week are firmly held, while there has been no further change in the reduced prices of CREAM OF TARTAR and TARTARIC ACID noted last week.

Crude Drugs

Conditions in the CRUDE DRUG markets are by no means lifeless, although the volume of business passing is certainly limited. The obstacle to better trade is, of course, the lack of normal supplies of a fairly extensive range of products, and in a number of cases the markets have long since been cleared of stocks and there are no signs forthcoming that fresh supplies are likely to arrive in the near future. Throughout there is a steady tone as regards values, and any changes that may take place in the near future will probably be to rather higher rates. There would be plenty of business for Cape ALOES at full prices if adequate stocks were available, and the position is aggravated by the lack of shipment offers. With practically no spot supplies of CASCARA SAGRADA offering, the market is nominal and there is nothing at present offering from origin. The slightly better demand reported last week for ERGOT has fallen off, and this may be due to the fact that most of the material available is not in good condition. There has been more inquiry for Matto Grosso IPECACUANHA, but the chief difficulty in doing business is the very limited supplies on hand. Modest arrivals of the Minas product are reported. Spot holders report a better demand for most grades of RHUBARB, and prices are well maintained. Prices for other products in this section continue unchanged, and the markets generally are rather featureless in tone.

Controlled Essential Oils

We publish as a special section official list of controlled prices to consume of a number of American Lease-Lend Empire oils. The conditions of sale are indicated. It should be noted that controlled prices for the oils mentioned not in any way relate to "free" oils may be on the market. Holders of stocks which are outside the control continue at liberty to sell them at market prices provided, of course, they do not infringe the Prices of Goods Act as regards the amount of profit they make on sales. Business outside the control continues negligible, and this is largely due to generally restricted supplies now available.

Pharmaceutical Chemicals

ACETANILIDE.—Quoted steadily at 2s. per lb. for crystals; powder 2s. 6d.

ALLOBARBITONE.—Makers' price is unchanged at 6os. per lb.

CREAM OF TARTAR.—British manufacturer quotations are at the reduction recorded last week at 262s. per cwt., less 2½ per cent. discount.

ETHERS (METHYLATED).—Winchester quotations are priced at the following rates per lb.: 0.715, 5½d.; 0.725, 1s. 5½d.; 0.730, 1s. 5d.; 0.725, 1s. 7½d.; 0.725 (triply rectified), 2s. 0d.; 0.720, 1s. 8½d.; 0.717, 2s. 2½d.; 0.720 (B.P.), 1s. 10d.

ETHYL MORPHINE.—Prices per oz. for small quantities are as follows: ALKALOID.—½ 51s.; 1 oz., 48s. 6d.; 2 oz., 47s.; 3 oz., 46s. 4d.; 4 oz., 46s. HYDROCHLORIDE.—½ oz., 71 4d.; 1 oz., 40s. 6d.; 2 oz., 39s.; 3 oz., 38s. 4d.; 4 oz., 38s.

DIAMORPHINE.—Prices per oz. for small quantities are as follows: ALKALOID.—½ 54s.; 1 oz., 51s. 6d.; 2 oz., 50s.; 3 oz., 49s. 3d.; 4 oz., 49s. HYDROCHLORIDE.—½ oz., 49s. 1d.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

GALLIC ACID.—Price is steady at the advance recorded last week at 9s. to 10s. per lb., according to quantity.

GLYCERIN.—Prices per cwt. for small quantities are as follows: 56-lb. tin, 99s.; 14-lb. tin, 105s., subject to 2½ per cent. discount twenty-eight days.

GUAIACOLS.—Prices of CRYSTALS and CARBONATE unchanged at from 14s. to 15s. per lb.

MANDELIC ACID.—MANDELATES are quoted as follows: SODIUM and CALCIUM—4 oz., 81s.; 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net.

MONIUM (50 per cent. solution)—4 oz., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 14 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. lb. net. Packages extra and returnable.

MERCURY IODIDES.—The following are sellers' prices per lb.: RED, less than 7 lb., 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 10d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

MORPHINE.—Makers' prices per oz. for small quantities are as follows: ALKALOID, ½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s.; 3 oz., 48s. 3d.; 4 oz., 48s. HYDROCHLORIDE, ½ oz., 43s. 9d.; 1 oz., 41s. 3d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 4 oz., 38s. 9d.

NENOLPHTHALEIN.—Makers' quotations are given at the following levels: less than 7 lb., 4d. per lb.; 7 lb., 4s. 5d.; 14 lb., 4s. 4d.; 28 lb., 4s. 3d.; 1 cwt., 4s. 2d.

NOCARPINE.—Quotations per oz. are as follows: BASE, 1 oz., 27s.; 4 oz., 26s. 6d.; 1 lb., 26s.; HYDROCHLORIDE, 1 oz., 21s. 3d.; 2 oz., 20s. 9d.; 25 oz., 20s. 3d.; NITRATE, 1 oz., 16d.; 4 oz., 18s.; 25 oz., 17s. 6d.

NYROGALLIC ACID.—Values are maintained at advance recorded last week. New rates are as follows: CRYSTALS, 1 cwt., 17s. 9d. per lb.; 28 lb., 18s. 3d.; 28 lb., 18s. 9d., all net; 14 lb., 19d.; 7 lb., 20s. 9d.; less than 7 lb., 21s. 9d., less 2½ per cent. discount. RESUBLIMED, 1 lb., 20s. 6d. per lb.; 56 lb., 21s.; 28 lb., 19d., all net; 14 lb., 23s.; 7 lb., 24s. 3d.; less than 7 lb., 25s. 6d., all less 2½ per cent.

ANTONIN.—Home-trade prices are as follows: 10 kilos and over, £62; not less than 5 lbs., £63; 2-4 kilos, £64; 1 kilo, £65; 500 lbs., £66; 250 grams, £67; 100 grams, £68; than 100 grams, £69 per kilo. Carriage paid United Kingdom.

ODIUM BENZOATE.—In fair supply at 2s. 9d. per lb., according to quantity.

ODIUM SALICYLATE.—Makers' prices per lb. in quantities of 28 lb.—1 cwt. are as follows (in brackets): 2s. 11½d. (1-lb.); 10d. (4-lb.); 2s. 9d. (7-lb.); 2s. 8½d. (1-lb.); 2s. 8d. (28-lb.). Prices net one month.

OLPHANILAMIDE.—Current prices range from 6d. to 12s. 6d. per lb., according to quantity, lower figure being for half to one-ton lots.

ANNIC ACID (LEVIS EX ETHER).—Prices are steady at the advance recorded last week, 10 10s. per lb.

ARTARIC ACID, B.P. CRYSTAL.—Makers' prices continue at the recent reduction to 11½d. per lb., less 5 per cent. CREAM OF TARTAR is also at last week's reduction to 262s. cwt., less 2½ per cent.

ERPINEOL.—May be had for medicinal use from 3s. 6d. to 4s. per lb.

ANILLIN.—Makers' prices are steady, as follows: Ex clove oil or guaiacol, 5 cwt., 22s. 6d. per lb.; 1 cwt., 22s. 9d.; 56 lb., 23s.; less than 56 lb., 23s. 3d.

Crude Drugs

AGAR.—Very little business passing. Kobe No. 1 may still be had by approved buyers for bacteriological use at 65s. to 70s. per lb.

ALOES.—The Cape product continues in very short supply and at firm values. Spot price would not be less than 80s. per cwt., but most holders are reported to be asking 82s. 6d. Curaçao continues to be in poor request and prices are unchanged.

ANTIMONY.—Supply and price position unchanged with available production reserved for essential use. English minimum 99 per cent. regulus is quoted steady on spot at £120 per ton, delivered; 70 per cent. crude, for the home trade, £100 per ton, delivered.

BALSAMS.—*Tolu* is unchanged and firm, the price remaining steady at 13s. 6d. per lb.; *Canada*, unchanged at 10s. 3d.; *Peru*, 8s. 6d.; *Copaiba* is not quoted and appears to be off the market.

BELLADONNA.—Indian leaf is offered steadily at from 5s. to 5s. 3d. per lb., according to test. Indian root, from 4s. to 4s. 6d., also according to test.

BENZON.—Fair quality Sumatra block is steady on spot at £22 10s. per cwt. "Free" almonds, £32, ex store. Supplies are reserved for the manufacture of B.P. preparations.

BUCHU.—No supplies of either ovals or rounds are offered at present.

CAMPHOR.—Supplies of both synthetic and natural imported by the Ministry of Supply are available for distribution to approved users. Re-sale prices for quantities under 7 lb. are awaited.

CARDAMOMS.—Quiet conditions still obtain. Aleppy seed may be had on spot at 6s. 6d. per lb., with Aleppy greens at 5s. 6d. per lb., and split seed at the same price.

CASCARA SAGRADA.—Supplies continue to be lacking and a good inquiry is on the market. Prices nominal. There are no offers from origin.

CHAULMOOGRA.—*Hydnocarpus* oil, 1s. 3d. per lb., in bond Liverpool.

CHILLIES.—Mombasa is quoted on spot at 120s. per cwt., but no other varieties are offered.

CLOVES.—Zanzibar unchanged at 1s. 5d. per lb. on spot; second grade, to arrive, 10d. per lb. c.i.f., sellers.

COCOA BUTTER.—Except when sales are made under licence the maximum official price is 1s. 5½d. per lb., ex factory or warehouse.

COCONUT (DESICCATED).—The maximum selling price under Ministry of Food Order is 49s. per cwt.

DIGITALIS LEAVES.—Portuguese leaves on spot may be obtained at 135s. per cwt.; English-grown leaves steady at 2s. 6d. per lb.

DRAGON'S BLOOD.—Dull. Zanzibar drop, spot, £21 per cwt.; no other varieties are available.

ELEMI.—No. 1 gum, in small compass on spot, is quoted at 330s. to 340s. per cwt.

ERGOT.—A modest inquiry is reported but users find it difficult to locate satisfactory material. Some wormy Portuguese material is available at about 5s. per lb.

GALANGAL ROOT.—Quoted at 95s. per cwt., in bond Liverpool.

GUM ACACIA.—Market is dull and unchanged: spot price of Kordofan cleaned sorts at 95s. per cwt.; bleached, for shipment, 140s., c.i.f. Some cleaned Talha is still available at 55s. per cwt., landed terms.

HENBANE LEAVES.—Indian leaves are quoted on spot at between 250s. and 300s. per cwt., according to test. Russian leaves, to approved buyers, 3s. 6d. per lb.

IPECACUANHA.—The volume of business passing has been steady this week. Spot supplies continue scarce with any available Matto Grosso worth 22s. per lb.; Minas B.P., 18s. 6d., as to seller; under B. P. standard, 17s. to 17s. 6d. per lb., according to test. Small landings of this sort are reported. Current prices of EXT. IPECAC. LIQ. are as follows: Winchester, B.P., 1932, under three, 30s. 6d. per lb.; three and under six, 30s.; six and under twelve, 29s. 6d.; twelve and over, 29s. B.P., 1914, under three, 28s. 6d.; three and under six, 28s.; six and under twelve, 27s. 6d.; twelve and over, 27s. per lb.; all prices quoted are on a net basis.

JABORANDI.—Spot supplies are limited; price would be 60s. per cwt., ex store.

JALAP.—Brazilian root testing 16 per cent. is offered on spot at 105s. per cwt., and 13 per cent. at 95s.

KAMALA.—Small supplies of material testing 5 per cent. ash are offered on spot at the unchanged price of 1s. 9d. per lb.

LIQUORICE ROOT.—Russian root is available to approved buyers at 75s. per cwt. Anatolian natural, spot, 90s. per cwt., also to approved buyers.

MENTHOL.—Market is steady but on the quieter side with the price for spot supplies steady at 115s. per lb.

MERCURY.—Prices are controlled between £68 10s. and £69 15s. per bottle, for quantities of over 7 lb.

MYRRH.—About £20 per cwt. would be required on spot for good-quality Aden sorts, but pickings may be had at half that price.

NUTMEGS.—West Indian, spot, wormy and broken, 1s. 7d. per lb.; sound unassorted, 1s. 10d.

NUX VOMICA.—Cochin, washed and garbled, can be bought on spot at 42s. 6d. per cwt.; Cocanada, spot, 37s. 6d. Shipment, Cocanada, 32s. 6d. per cwt., c.i.f.

ORANGE PEEL.—Good-quality thin-cut, on spot, would be worth 4s. 3d. per lb., with darkish a few pence less. Bitter quarters, spot, 3s. 3d. per lb.

PAPAIN.—Nominal on spot at 17s. 6d. per lb.

PEPPERS.—Maximum prices of whole, not picked over or cleaned, on sale to processors,

are at 1s. 4d. per lb. for white, and 1s. per lb. for black, both duty paid.

PIMENTO.—Spot sellers at 1s. 9d. per lb. shipment, unquoted.

PODOPHYLLUM.—Untested material quoted on spot at 95s. per cwt.; shipment, 72s. 6d. c.i.f.

PSYLLIUM SEED.—Spot values for India seed are steady at 1s. 3d. per lb., ex store. Only small occasional business passing.

QUILLAIA BARK.—Crushed or cut bark, spot, 100s. per cwt.; natural, afloat, 75s., c.i.f.

RHUBARB.—A fair consuming demand, reported with spot business passing in rough round at from 8s. per lb., according to quantity flat high-dried, rough-coat, 8s. to 8s. 3d. slightly wormy, 8s. Supplies are now at a low level. Shensi pickings, 10s.

SAPONIN.—Spot price is steady at 7s. 6d. per lb., ex store.

SEEDS.—These commodities continue neglected with no quotable price movement to record. Current rates are as follows: **CORIANDER.**—Indian, 92s. to 92s. 6d. per cwt. **CUMIN.**—Maltese, spot, 122s. 6d.; Indian, 112s. 6d. **DILL.**—160s., ex wharf Glasgow; 170s., ex wharf London. **FENNEL.**—Nominal at 60s. **FENUGREEK.**—May be had at 82s. 6d. **MINT.**—Controlled prices unchanged.

SENNA.—No change in values to report. It is understood the import scheme is being developed and that licences may be issued in the distant future. **Alexandrian pods, medium,** 3s. 9d. to 4s. per lb.; **Tinnevely pods, hand-picked,** 11d. to 1s. 5d.; **ordinary grade,** 1s. to 11d.; **manufacturing,** 6d. to 7½d. **Alexandrian leaves, broken,** 1s. 3d. to 1s. 4d.; **Tinnevely leaves, No. 1,** 9d. to 10d.; **No. 2,** 7d. to 7½d.; **No. 3,** 5½d. to 6d.

SQUILL.—Steady. Portuguese, spot, 80s. per cwt.; Indian, 72s. 6d.

STRAMONIUM LEAVES.—Indian leaves, spot, would be worth 95s. per cwt., ex store.

STROPHANTHUS.—100 per cent. Kombé seed may be obtained from dealers at 10s. 6d. per lb. a lower price would be accepted for larger quantities.

TRAGACANTH.—A quiet market at steady prices. The principal medium grades priced at follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £102; No. 4, white, £83; pale leaf, £73; amber leaf, £60; dark amber, £50; brown leaf, £45; red-amber leaf, £38; red leaf, from £32; hog light, from £17; woody and dark, £12.

TURMERIC.—Extremely quiet with practically no inquiry; sound-quality Madras finger would be worth 60s. per cwt. on the spot, and worth half-a-crown less.

VALERIAN ROOT.—Spot quotations for India seed are steady at 95s. per cwt., ex store.

WAXES.—**BEES'.**—Through Association Merchant Distributors of Beeswax only. **CANBA.**—Firm. Fatty grey and chalky grades, spot, 430s.; Primeira, 530s. per cwt.

Essential and Expressed Oils

ANISE (STAR).—Any available small lots are only held with prices up to 70s. per lb. being asked by holders.

BAY.—Any available small spot supplies would be worth approximately 12s. 6d. per lb.

BOIS DE ROSE.—Small quantities, if available spot, would be worth about 47s. per lb.

CAJUPUT.—Dealers would require about 15s. per lb. for any available small spot stocks.

CINNAMON LEAF.—Offered on spot at the unchanged price of 15s. 6d. per lb.

CITRONELLA.—Continues in good inquiry. A oil is quoted at about 25s. per lb., and lemon in the region of 21s. 6d.

CLIVE.—English distillers' prices for B.P. remain at 14s. per lb.; imported oil would be cheaper according to grade.

COCONUT.—Fixed prices for bulk supplies are as follows: Refined deodorised, £49 per ton; hardened deodorised, £53, naked ex works.

COTTONSEED.—Prices for bulk supplies are fixed at the following levels: Refined edible, £57 per ton; refined deodorised, £58 per ton; and naked ex works.

EUCALYPTUS.—Small quantities of oil containing from 70 to 75 per cent. cineole are offered at about 6s. 6d. per lb., on spot.

GERANIUM.—Genuine North African, in small quantities, may be had at approximately 85s. per ton.

GINGER.—English-distilled oil is worth approximately 90s. per lb.

GINGERGRASS.—Steady on spot at 22s. 6d. per lb.; available supplies are small.

LEMONGRASS.—Spot holders would require about 15s. to 16s. per lb.

NUTMEG.—Oil from West Indian nutmegs may be had, on spot, at about 42s. per lb.

PALM KERNEL.—Controlled price is £49 per ton, naked ex works, for refined deodorised, £53 per ton for hardened refined deodorised.

PATCHOULI.—Spot price of any available quantities of good-quality oil would be in the region of 75s. per lb.

PERFUMED ROYAL.—Spot, if available, would be worth about 40s. to 45s. per lb.

PEPPERMINT.—Some business is reported in odd lots of Chinese oil at 102s. 6d. to 110s. per lb.

PEPPERTREE.—Extremely short on spot; the price would be about 25s. per lb.

PEPPERSEED.—Controlled price of bulk supplies changed at 60s. per ton, naked ex works.

ROSEMARY.—Any available small spot supplies would be worth about 16s. per lb.

SAGE.—Spot, if available, around 32s. 6d. per lb.

SANDALWOOD.—In short supply; high-grade oil would fetch about 25s. per lb.

SANDALWOOD.—Spot, about 95s. per lb.

Controlled Essential Oils

WE have been given the following information by the Secretaries to the Advisory Committee on Essential Oils Control. The following are the controlled prices to consumers for the American and Empire oils indicated, in original packages, free delivered to buyer's warehouse. Where broken bulk occurs necessitating re-packing, the agreed margins which have been fixed and which appear in Circular No. 1, paragraph 2, are additional to the prices set out below.

Lease-Lend Oils (American)—

| | s. | d. | |
|--------------------------|----|-----|---------------------|
| Cold pressed lemon | 18 | 10½ | per lb. |
| Distilled lemon | 14 | 4 | " " |
| Peppermint | 36 | 4 | " " |
| Grapefruit | 18 | 2 | " " |
| Sassafras | 20 | 1½ | " " |
| Caraway | 11 | 4½ | " " |
| Wormseed | 15 | 0 | " " |
| | | | (plus purchase tax) |
| Cedarwood | 3 | 1 | per lb. |
| Nutmeg | 23 | 3 | " " |

Oils from Empire sources—

| | | | |
|-----------------------|----|---|-----|
| Clove, Zanzibar | 5 | 6 | " " |
| Citronella | 5 | 0 | " " |
| Lime | 46 | 3 | " " |
| Lemongrass | 5 | 6 | " " |

It is understood that the additional prices for re-packed smaller quantities than original drums are as follows: For oils packed in 1-cwt. drums, 1s. per lb. extra; in 56-lb. drums, 1s. 3d. per lb. extra; in 28-lb. tins in cases, 1s. 6d. per lb. extra; in 14-lb. tins in cases, 1s. 9d. per lb. extra. The drums and wooden cases must be returned and allowances of 10s. 6d. for 1-cwt. drums; 6s. 6d. for 56-lb. drums; 4s. for 28-lb. drums; and 3s. for 14-lb. cases will be made.

A Good Shilling's Worth.—The first consignment of the *C. & D.* Price List of Medicinal Proprietarys sold over the Chemist's Counter has been sold and dispatched, and a second delivery is now meeting a brisk demand. Tons of obsolete price lists issued by firms have thus been released for salvage. The *C. & D.* Price List is arranged alphabetically, and gives in tabulated form the trade price and purchase tax per dozen and the inclusive retail price for each product. The list is up to date, and copies are on sale from the Publisher, THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2, price one shilling, post free.

Answers to Quiz No. 9.—The answers to the questions given on p. 210 are:—1. In 1582, in "Kreuterbuch," by Adam Lonicer. 2. Thenard, 1818. 3. Colloodium belladonnæ, B.P.C. 4. Sumbul, from *Ferula Sumbul*. 5. Conf. guaiac. co., B.P.C. 6. Bismuth and iodoform paste. 7. Limousin, 1873. 8. Lead carbonate. 9. 1907. 10. He rescued Alexander Selkirk (Robinson Crusoe), 1769.

MISCELLANEOUS INQUIRIES

Disclosure of Formula.—*C. D. S.*—In our opinion the rosemary hair wash label is printed in terms which are calculated to lead to the use of the substance for the prevention or treatment of a human ailment, namely, dandruff or scurf. Whether the remainder of the paragraph concerned would come within the above definition is perhaps open to question, but we think by inference that it does, particularly when read in conjunction with the directions; consequently we consider you should disclose the formula.

Disinfestation of Valuable Woodwork.—*H. McG.*—A preparation that appears to satisfy all the conditions met with in treating antique or valuable woodwork is made according to the following formula:—

| | |
|------------------------|----|
| Orthodichlorbenzene .. | 91 |
| Castile soap .. | 7 |
| Cedarwood oil .. | 2 |

The mixture does not discolour even light-coloured wood. It is neither highly inflammable nor dangerous to use, and its odour is not objectionable. The wood is thoroughly dusted before treatment, and the insecticide applied carefully, no crevices or joints being overlooked. Control of death-watch or furniture beetles is dependent on the thoroughness with which the insecticide is applied, and is best secured by re-treatment at intervals. An alternative formula is:—

| | |
|--------------------------|----|
| Zinc or barium oleate .. | 3 |
| Cedarwood oil .. | 3 |
| Soap .. | 1 |
| Paraffin wax .. | 10 |
| Water .. | 83 |

To this a volatile poison such as dichlorbenzene is added.

Diet for Expectant Mothers.—*E.W.*—Present-day medical opinion is overwhelmingly against attempting to ease childbirth by restricting the mother's diet to reduce the size of the infant. The attempt is made to ensure normal labour by correct nutrition. According to a paper read before the Nutrition Society in London earlier in the year, the only war-time dietary shortages likely to react on pregnant women are of animal protein, calcium and phosphorus, vitamin D and ascorbic acid, but no actual evidence of untoward effects of shortage had been forthcoming. The best advice you can give your customer is probably, therefore, to secure as varied and well-balanced a diet as she can. The demands on calcium and phosphorus are particularly

heavy during pregnancy, and preparation containing them can hardly fail to be beneficial.

Gardening Books for a Pharmacist.—*F. H. W.*—Probably more than one book would be required to provide all the information you want. A useful work "The Gardener's Enquire Within" by Macself (W. H. L. Collingridge, Ltd., 2-10 Tavistock Street, London, W.C., price about 7s. 6d.). This is alphabetical arranged and well illustrated. Another book which gives rather more detail and includes a section on elementary botany, greenhouse and other constructional work, together with a monthly calendar of operations, "The Encyclopædia of Gardening" by Walter P. Wright (J. M. Dent & Sons Ltd., 10-13 Bedford Street, London, W.C.2). The price of this work, which is again alphabetically arranged, and contains a wealth of material, is 15s. in the standard edition, but we believe the work also appeared in the popular-priced Everyman library. The subject of vegetable growing is ably dealt with by the editor of the "Smallholder" in "Vegetable Growing" (C. Arthur Pearson, Ltd., Southampton Street, London, W.C.2, price 2s. 6d.).

Zinc Stearate in Liquid Powders.—*N. W.*—The virtue of stearate is the lightness of the powders and their matt coverage. A wetting agent can be used with the stearate alone to reduce the water resistance, but its real value is a barrier powder against water-soluble deleterious substances. The formula, if made up with 10 minims of exquill. liq. and water triturated into a cream with zinc stearate alone, and the other powders then incorporated and made up to quantity with the other ingredients, a fine suspension, but owing to the difference in density of the powders the lighter stearate ultimately floats to the top as a scum. It easily shakes up and is not unsightly in appearance. Any suspending agent would defeat the object of the liquid powder. We suggest you replace the zinc stearate with mag. carb. levis. The coverage is as good, but if you want a water-repellant then it is not so good.

CLOSED ON SATURDAYS.—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D. 17 Argyle Street, Bath, Somerset.



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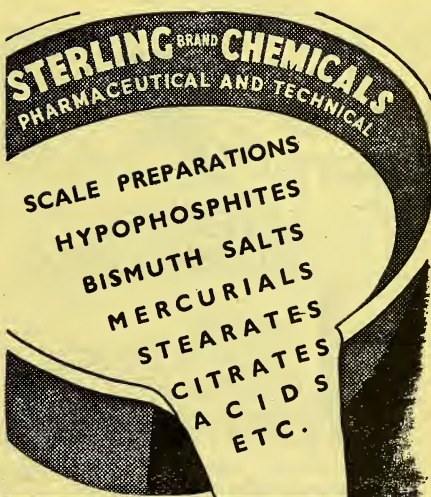
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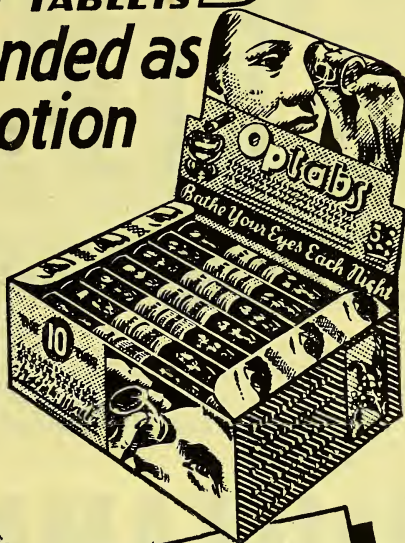
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1



2



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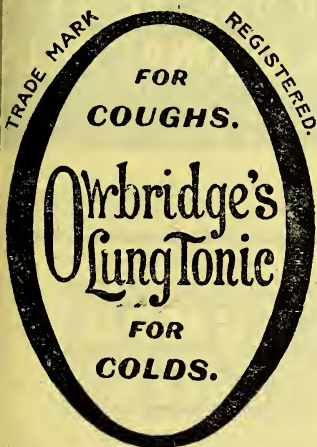
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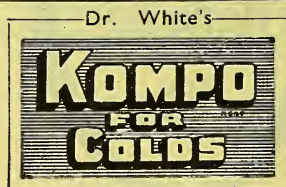
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The CHEMIST AND DRUGGIST

SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

AUGUST 28
1943

28 ESSEX STREET, LONDON, W.C.2



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Employment of Women (Control of Engagements) Order 1942

With certain exceptions, women over 18 and under 45 years of age seeking Employment and Employers seeking to engage such women are now required to do so through the local office of the Ministry of Labour National Service or an approved employment agency

RETAIL (HOME)

CHEMIST required for Pharmacy Department modern Store. Either sex, exempt military service. Salary up to £400. 433/873, London O. of this Paper.

MANAGER, Experienced, for South London Pharmacy. Living accommodation. 443, London Office of this Paper.

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QUALIFIED Manager required for Branch Staff Pharmacy if suitable. Minimum salary £7 4s. Also Qualified Locum. State dates available **The Walsall & District Co-operative Society, 1 Bridge Street, Walsall.**

QUALIFIED Pharmacist required, Man or Woman. Apply personally, Staff Controller, Whiteley Bayswater.

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TAYLORS British Chemists have vacancies. Qualified Managers and Assistants, male or female, in the Midlands and North of England. Apply Retail Staff Dept., Burley Hill, Leeds, 4.

THE Manchester and Salford Co-operative Society invite applications from fully qualified male female pharmacists who are exempt from National Service and capable of taking charge of a branch shop. Applications stating age, experience and salary required, to be addressed to the Drug Superintendent, 67 Downing Street, Manchester, 1.

TIMOTHY WHITES & TAYLORS are requiring Pharmacists, male or female, as Managers of branches at Camberley, Bournemouth, Portsmouth, Redruth, Gloucester, Evesham, to replace staff being called up for military service. Applicants should be interviewed at or near home towns if desired. Full particulars to Retail Drug Department, Vauxhall Bridge Road, S.W.1.

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LOCUMS WANTED

QUALIFIED Locum required, fortnight in September; no Sunday or half-day duty; £10 per week. Apply **Lockhurst Lane Co-operative Society Ltd., Holmsdale Road, Coventry.**

WHOLESALE

AGENTS with good connexion with Chemists required by lively Sundriesmen for following districts: Manchester, Liverpool, and Hull. 441/254, London Office of this Paper.

CHEMISTS' Representatives required for Company of national repute, to take over territories in all parts of Great Britain, for strongly advertised firmly established range of Proprietaries. Previous experience of selling to Chemists essential. Salary, expenses, commission, permanent. Applications must give full details of career to date, salary required, and position under National Service Acts, incomplete application not to be dealt with. Our Sales Staff are aware of announcement. 443/320, London Office of this Paper.

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MANUFACTURERS of Pharmaceutical Products desire an experienced representative with good connexions amongst Chemists and Stores in London and Greater London Area. Commission 8s. 443/311, London Office of this Paper.

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STAFF required by Wholesale Chemists in Lancashire. The company is at present small but is progressive. Applications are invited from those with experience in representation, office work, warehouse, etc. Opportunities exist for promotion of suitable candidates from the retail trade. 442/289, London Office of this Paper.

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SITUATIONS WANTED

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COMPETENT Lady Dispenser and experienced Secretary desires position. Free end of September; exempt; Hospital or where capable secretarial abilities and knowledge of medical and chemical terms would be useful. 443/327, London Office of this Paper.

LADY Dispenser, qualified, experienced, wants small institution post or part-time work. Russell, Peazens, Beer, Devon.

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UNQUALIFIED, ex-Forces, 12 years' experience in all branches, seeks change. Midlands preferred. Excellent refs. Please state wages. 443/326, London Office of this Paper.

WHOLESALE

COSMETIC Chemist, long experience manufacturing first-class preparations, also own formulas if required, wants situation. 443/323, London Office of this Paper.

ENERGETIC Pharmacist (40), director London retail company, seeks responsible position in Wholesale or Manufacturing firm. Wide experience of pharmacy, foreign agencies, small-scale manufacture. Replies in confidence, 443/325, London Office of this Paper.

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NORTHERN IRELAND, old-established Agent, excellent connexion Chemists, could look after the interests of one other good house. 443/318, London Office of this Paper.

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REPRESENTATIVE over military age, many years' experience, drugs and medicinal products, Midland Counties, desires position with reputable firm. 443/330, London Office of this Paper.

TABLET Maker seeks position with post-war prospects. Not eligible for Services. Disengaged. 443/329, London Office of this Paper.

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Consideration will be given to applications for appointment on a temporary basis during the period of the war only from any persons desiring to be considered on that basis.

Applications, stating age, qualifications and experience, together with the names of two persons who would be willing to give references as to the applicant's personal and professional qualifications for the post, should be addressed to the Medical Superintendent, Leybourne Grange Colony, West Malling, Kent.

County Hall, W. L. PLATTS,
Maidstone, Kent. Clerk to the County
August 18th, 1943. Council.

PHARMACIST. Botleys Park Colony, Chertsey, Surrey. Applications invited from qualified ladies for above position at Colony for mental defectives. The Colony dispensary is at present merged into the much larger one serving War Emergency Hospital also, and successful candidate will be required under the Chief Pharmacist to assist in the work generally. Commencing salary according to age and experience on scale £250 × £10-£300 per annum plus war bonus at present 10s. per week. Apply to Department Medical Superintendent.

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Dispenser, either sex, required (qualified), to commence September 1st. Salary £300. Federated Superannuation Scheme.

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ST. HELIER COUNTY HOSPITAL

CARSHALTON

ASSISTANT PHARMACIST. Candidates must be M.P.S. or Ph.C. Commencing Salary according to age and experience on grade £250 × £10-£300 p.a. plus war bonus. Apply to Medical Supt.

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FOR SALE. British Pharmacopœia, 1932; British Pharmaceutical Codex, 1934. Condition as new. Squires Companion, 1915, good condition, £3. Dispensing Scales and Weights, recently overhauled, £3 10s. Two White Jackets, scarcely worn, size 14. The two 15s. 443/313, London Office of this Paper.

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LABORATORY Equipment required, including Fine Chemical Balance with Weights. 443/305, London Office of this Paper.

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